CUMULATIVE AUTHOR INDEX
Journal of Economic Entomology
Volume 98, 2005

A

Abedon, B. G., 982
Adamczyk, J. J., Jr., 88, 177, 1566
Adams, R., Jr., 350
Addo-Bediako, A., 384
Ahern, R. G., 2133
Akbar, W., 683, 955
Akhurst, R. J., 1311
Alatawi, F. J., 1040
Albajes, R., 464
Alder, P., 493
Alfaro, R., 1506
Allan, D., 1531
Allen, M. L., 2301
Alvarez, J. M., 1101
Amand, P. S., 595
Ameen, A., 899
Anshelevich, L., 135
Arbogast, R. T., 326
Ariyo, O. A., 611
Armstrong, J. W., 289, 1116
Armutçu, F., 358
Arnason, J. T., 845
Arthur, F. H., 1391
Arthurs, S. P., 1459
Asaro, C., 2033, 2058
Ashley, R., 350
Athanassiou, C. G., 1058, 1404, 1499, 1733
Atiri, G. I., 611
Auclair, A.N.D., 47
Audino, P. G., 1506
Aviles, M., 2266
Ayisi, K. K., 384

B

Baamonde, M. D., 1349
Badenes-Perez, F. R., 836, 884
Bailac, P., 651
Bailey, J. E., 1435
Bailey, W. C., 2013
Baird, D., 1187
Baker, J. E., 2282
Ballanger, Y., 9
Balotis, G. N., 1499
Banbury, L. K., 1259
Bandara, K. A. N. P., 1163
Barak, A. V., 1911
Barbara, K. A., 689
Barcenas, N. M., 299
Barr, P. G., 1170
Barrera, J. F., 821
Barrington, A., 732, 1531
Barry, J. D., 1236
Basta, A. H., 1259
Bates, S. L., 2188
Baudart, E., 656
Baumgärtner, J., 1524
Baur, M. E., 577
Becker, O., 222
Beers, E. H., 1630
Beers Peryea, E. H., 188
Begna, S. H., 1969
Behle, R. W., 1984
Bennett, G. W., 485, 899, 933
Bentley, W. J., 1109
Bentz, B. J., 1614
Bergh, J. C., 2121
Berisford, C. W., 2058
Bernal, J. S., 1018
Bernard, S. J., 1796
Bernklau, E. J., 476, 1150
Bessin, R. T., 395
Bextine, B., 667
Bi, J. L., 182
Biddinger, D. J., 423
Bigalk, M., 1796
Biggs, R. W., 635, 947
Bird, L. J., 1311
Bishop, B., 694
Bjorksten, T. A., 1831
Bjostad, L. B., 476, 1150, 1669
Blanche, R., 1193
Blanco, C. A., 88, 2203
Bloem, S., 1924
Blom, P. E., 66
Blua, M. J., 667, 1664
Boetel, M. A., 1957, 1992
Boethel, D. J., 577
Boissot, N., 557
Booth, D. C., 2049
Borchert, D. M., 765
Borden, J. H., 2254
Borgemeister, C., 438, 1221
Bosch, J., 1077, 1917
Bosque-Pérez, N. A., 805
Boucher, T. J., 350
Bowling, R. A., 2181
Brandenburg, R. L., 1435
Brar, S. K., 1890
Brazee, R. J., 961
Brewer, G., 1420
Brewster, C. C., 72
Bridges, W. C., Jr., 814
Broberg, C. L., 2254
Broce, A. B., 2307
Brown, G. C., 395
Bruck, D. J., 1884
Brunel, O., 1510
Brunner, J. F., 875, 1630, 2100
Buczkowski, G., 485
Buddle, C. M., 1648
Buitenhuis, R., 1480
Bull, R., 1551
Bundy, C. S., 2028
Bunsong, N., 449
Burnip, G. M., 732, 1531
Burns, R. E., 1641
Buschman, L. L., 1333, 2181
Buss, E. A., 689
Butrón, A., 982, 1694
Büyükgüzel, K., 358
Byers, J. A., 1763
Byrne, F. J., 182

C

Cabras, P., 267
Calderone, N. W., 645
Calibeo-Hayes, D., 229
Calvin, D. D., 103, 1229
Campbell, J. F., 1391
Campbell, K., 1664
Campbell, L. R., 595
Campos, L.A.O., 260
Cannon, C. A., 618
Cao, J., 2188
Carpenter, J. E., 1924
Carrière, Y., 635, 947, 1751
Carrillo, M. A., 618
Carvalho, L. A., 1139
Casana-Giner, V., 1139
Castle, S. J., 182, 1763
Castle Del Conte, S. C., 805
Chaggan, A., 1531
Chaisuekul, C., 2107
Chandler, D., 1848, 1856
Chandler, L. D., 1294, 1957
Chapman, P. S., 1654
Charles, J., 1531
Chen, C.-S., 1369
Chen, S., 943
Chen, Y., 217
Childers, C. C., 1048
Chini, S. R., 326
Chittka, L., 656
Christian, P. D., 1839
Cibrián-Tovar, J., 2203
Clare, G. K., 1187
Clark, T. L., 1126, 1679
Cloyd, R. A., 1399, 1937
Coble, M.L.M., 1357
Coleson, J. L., 996
Collins, M. B., 1698
Conley, S. P., 2013
Cook, K. A., 673

CUMULATIVE AUTHOR INDEX
Journal of Economic Entomology
Volume 98, 2005

A

Abedon, B. G., 982
Adamczyk, J. J., Jr., 88, 177, 1566
Adams, R., Jr., 350
Addo-Bediako, A., 384
Ahern, R. G., 2133
Akbar, W., 683, 955
Akhurst, R. J., 1311
Alatawi, F. J., 1040
Albajes, R., 464
Alder, P., 493
Alfaro, R., 1506
Allan, D., 1531
Allen, M. L., 2301
Alvarez, J. M., 1101
Amand, P. S., 595
Ameen, A., 899
Anshelevich, L., 135
Arbogast, R. T., 326
Ariyo, O. A., 611
Armstrong, J. W., 289, 1116
Armutçu, F., 358
Arnason, J. T., 845
Arthur, F. H., 1391
Arthurs, S. P., 1459
Asaro, C., 2033, 2058
Ashley, R., 350
Athanassiou, C. G., 1058, 1404, 1499, 1733
Atiri, G. I., 611
Auclair, A.N.D., 47
Audino, P. G., 1506
Aviles, M., 2266
Ayisi, K. K., 384

B

Baamonde, M. D., 1349
Badenes-Perez, F. R., 836, 884
Bailac, P., 651
Bailey, J. E., 1435
Bailey, W. C., 2013
Baird, D., 1187
Baker, J. E., 2282
Ballanger, Y., 9
Balotis, G. N., 1499
Banbury, L. K., 1259
Bandara, K. A. N. P., 1163
Barak, A. V., 1911
Barbara, K. A., 689
Barcenas, N. M., 299
Barr, P. G., 1170
Barrera, J. F., 821
Barrington, A., 732, 1531
Barry, J. D., 1236
Basta, A. H., 1259
Bates, S. L., 2188
Baudart, E., 656
Baumgärtner, J., 1524
Baur, M. E., 577
Becker, O., 222
Beers, E. H., 1630
Beers Peryea, E. H., 188
Begna, S. H., 1969
Behle, R. W., 1984
Bennett, G. W., 485, 899, 933
Bentley, W. J., 1109
Bentz, B. J., 1614
Bergh, J. C., 2121
Berisford, C. W., 2058
Bernal, J. S., 1018
Bernard, S. J., 1796
Bernklau, E. J., 476, 1150
Bessin, R. T., 395
Bextine, B., 667
Bi, J. L., 182
Biddinger, D. J., 423
Bigalk, M., 1796
Biggs, R. W., 635, 947
Bird, L. J., 1311
Bishop, B., 694
Bjorksten, T. A., 1831
Bjostad, L. B., 476, 1150, 1669
Blanche, R., 1193
Blanco, C. A., 88, 2203
Bloem, S., 1924
Blom, P. E., 66
Blua, M. J., 667, 1664
Boetel, M. A., 1957, 1992
Boethel, D. J., 577
Boissot, N., 557
Booth, D. C., 2049
Borchert, D. M., 765
Borden, J. H., 2254
Borgemeister, C., 438, 1221
Bosch, J., 1077, 1917
Bosque-Pérez, N. A., 805
Boucher, T. J., 350
Bowling, R. A., 2181
Brandenburg, R. L., 1435
Brar, S. K., 1890
Brazee, R. J., 961
Brewer, G., 1420
Brewster, C. C., 72
Bridges, W. C., Jr., 814
Broberg, C. L., 2254
Broce, A. B., 2307
Brown, G. C., 395
Bruck, D. J., 1884
Brunel, O., 1510
Brunner, J. F., 875, 1630, 2100
Buczkowski, G., 485
Buddle, C. M., 1648
Buitenhuis, R., 1480
Bull, R., 1551
Bundy, C. S., 2028
Bunsong, N., 449
Burnip, G. M., 732, 1531
Burns, R. E., 1641
Buschman, L. L., 1333, 2181
Buss, E. A., 689
Butrón, A., 982, 1694
Büyükgüzel, K., 358
Byers, J. A., 1763
Byrne, F. J., 182

C

Cabras, P., 267
Calderone, N. W., 645
Calibeo-Hayes, D., 229
Calvin, D. D., 103, 1229
Campbell, J. F., 1391
Campbell, K., 1664
Campbell, L. R., 595
Campos, L.A.O., 260
Cannon, C. A., 618
Cao, J., 2188
Carpenter, J. E., 1924
Carrière, Y., 635, 947, 1751
Carrillo, M. A., 618
Carvalho, L. A., 1139
Casana-Giner, V., 1139
Castle, S. J., 182, 1763
Castle Del Conte, S. C., 805
Chaggan, A., 1531
Chaisuekul, C., 2107
Chandler, D., 1848, 1856
Chandler, L. D., 1294, 1957
Chapman, P. S., 1654
Charles, J., 1531
Chen, C.-S., 1369
Chen, S., 943
Chen, Y., 217
Childers, C. C., 1048
Chini, S. R., 326
Chittka, L., 656
Christian, P. D., 1839
Cibrián-Tovar, J., 2203
Clare, G. K., 1187
Clark, T. L., 1126, 1679
Cloyd, R. A., 1399, 1937
Coble, M.L.M., 1357
Coleson, J. L., 996
Collins, M. B., 1698
Conley, S. P., 2013
Cook, K. A., 673

Cornelius, M. L., 502, 2160
Costa, H. S., 2089
Costamagna, A. C., 1374
Côté, J.-C., 1469
Cox, R., 1087
Coyle, D. R., 2049
Crosslin, J. M., 279
Crowder, D. W., 518, 534, 961
Cunningham, S. A., 1193
Currie, R. W., 1802
Cutler, G. C., 1685
Czokajlo, D., 334, 1517

D

Daane, K. M., 1109
Daly, J. C., 1007, 1382
Davey, R. B., 552
Davidson, G., 1848, 1856
Dechaume-Moncharmont, F.-X., 9
Degain, B., 947
de Guzman, L. I., 1796
Delalibera, I., Jr., 1704
Delcarte, E., 656
Dellinger, T. A., 72
Del Sarto, M.C.L., 260
De Luca, F., 2235
Dennehy, T. J., 635, 947, 1751
Denning, S. S., 229
Dentener, P. R., 1187
De Oliveira, D., 367
de Remes Lenicov, A.M.M., 1374
Desneux, N., 9
Dhillon, M. K., 568
Dias, C., 1880
Diaz, F. J., 2095
Dick, D. L., 1669
Dillehay, B. L., 103
Dimizas, C. B., 1404
Dixon, A.G.O., 611
Doerr, M. D., 1630, 2100
Dogramaci, M., 202
Doungsa-Ard, C., 449
Dowd, P. F., 856
Dowell, F. E., 2282
Drummond, F. A., 1774
Dunkelblum, E., 135
Dunley, J. E., 1630

E

Earle, E. D., 2188
Eastburn, C. C., 875
Economou, L. P., 1404
Eger, J. E., 1048
Eguaras, M., 267, 651
Eischen, F. A., 1087
Eizaguirre, M., 464
Ellersieck, M. R., 1126
Ellers-Kirk, C., 635, 947
Elliott, N. C., 95
Ellner, S., 18
Ellsbury, M. M., 1992
El-Sayed, A. M., 1187, 1531
English, L. M., 2028
Epstein, D., 1267
Esker, P. D., 673
Etebari, K., 1717
Evans, P., 947
Evenden, M. L., 317, 334
Evenson, P. D., 1957

F

Falmagne, P., 656
Fang, S., 1157
Farris, G. E., 790
Fauvergue, X., 9
Faverin, C., 651
Feng, G., 1179
Fernandez, D. E., 1630
Fettig, C. J., 2041
Fielding, D. J., 1969
Finnegan, E. J., 1007, 1382
Fitzpatrick, B. J., 577
Fleischer, F. D., 1930
Fleischer, S. J., 66, 1441
Flinn, P., 626
Floris, I., 267, 651
Fondren, K. M., 1603
Foottit, R. G., 188
Forster, P. I., 1259
Fowler, G., 47
Franceour, A., 1774
Frank, S. D., 2133
Franklin, J. L., 862
Franz, G., 248
Fraser, I., 373
French, B. W., 1992
Fritts, R., Jr., 1459, 1863
Fromm, E. A., 476
Fuller, B. W., 1957, 1992

G

Gable, R. H., 82
Gagnon, N., 845
Gahan, L. J., 1357
Galvan, T. L., 780
Gamundi, J. C., 577
Gao, A. G., 577
Gao, R., 2292
Gao, X., 1325
Garau, V. L., 267
Garcia, P., 1880
Garnas, J., 1774
George, J. E., 552
Ghanipoor, M., 1717
Gibb, A. R., 1187
Gibb, N. N., 1839
Gibson, K., 1614
Gildow, F. E., 1441
Giles, K. L., 95, 217
Gilioli, G., 1524
Glenn, D. M., 2079
Goldsmith, M. R., 248
Gordon, D., 135
Gore, J., 88, 177
Gouge, D. H., 1486
Gould, F., 18, 1357
Grace, J. K., 916, 1421
Graham, G. C., 2210
Graham, R. H., 1087
Gratton, C., 113
Gray, M. E., 534, 961, 1587
Green, J. M., 933
Greenberg, L., 2089
Greenberg, S. M., 749, 796
Grehan, J., 66
Groden, E., 1774
Gualtieri, L. L., 1594
Guillard, E., 2266
Gürel, A., 358
Gut, L. J., 432, 1267
Guy, S. O., 805

H

Hackett, J., 732
Hagel, G. T., 1816
Hager, A. G., 534
Hagerty, A. M., 814
Hain, F. P., 409
Haley, S. D., 588, 1698
Hall, D. G., 1048, 1641
Hallman, G. J., 1905
Hamm, P. B., 279
Hamm, R. L., 171
Hampton, R. O., 1816
Hance, T., 704
Hang, X., 1911
Hansen, K. K., 1305
Hanson, S., 2028
Hanzlik, T. N., 1839
Hara, A. H., 284
Harari, A. R., 135
Harding, C. L., 66
Hardman, J. M., 862
Harel, M., 135
Harris, C. R., 1685, 2272
Harris, D. L., 1641
Harris, M. K., 1179
Harrison, L. A., 577
Harshman, D., 667
Haviland, D. R., 1109
He, F., 2181
Head, G. P., 1992
Headrick, H. L., 1863
Heckel, D. G., 1357
Hejazi, M. J., 35
Henderson, G., 41
Henderson, S., 635
Hennessey, M. K., 47
Hesler, L. S., 603, 2020
Hibbard, B. E., 1126, 1679
Hibbard, K. L., 1641
Higgins, R. A., 1333, 2181
Higginson, D. M., 635
Hoffmann, A. A., 307
Hofmeyr, J. H., 1924

Hogg, D. B., 113, 2006
Hogmire, H. W., 143
Hogsette, J., 2307
Hogue, A. T., 47
Holler, T. C., 1139
Holley, D., 947
Hollingsworth, R. G., 289, 772
Holt, H. E., 1007
Hood, W. M., 1791
Hooper-Bùi, L. M., 2153
Hopkinson, J., 1839
Horng, S.-B., 1369
Hoy, C. W., 1213, 2195
Hu, X. P., 509
Huang, F., 1333
Huang, M., 195
Huang, Z. Y., 274
Hubbard, J. L., 1202
Huber, D.P.W., 2041
Hull, L. A., 423, 1229
Hunger, R. M., 95
Hurt, C. A., 1435
Husseneder, C., 916, 1421
Hutchison, W. D., 618, 780
Hyde, J. A., 103

I

İçen, E., 358

I

Ings, T. C., 656
Isaacs, R., 415, 432
Isbell, T. A., 1984
Isman, M. B., 1560
Israely, N., 739

J

Jackson, D. M., 159
Jacobsen, C. M., 284
Jallow, M.F.A., 2195
James, D. M., 1669
James, R. R., 1094, 1785
Jamieson, L., 1187
Jang, E. B., 1139, 1539
Jayas, D. S., 1413
Jenkins, C. C., 1641
Jensen, A., 279, 1816
Jensen, K.I.N., 862
Jensen, K.-M. V., 1305
Jian, F., 1413
Johnson, D. W., 395
Johnson, M., 1070
Jones, D. B., 217
Jones, V. P., 875, 2100
Jones, W. A., 1018
Joost, P. H., 1622
Jordan, D. L., 1435
Jordan, K. K., 664
Jordan, R. A., 976
Judd, T. M., 476
Jyoti, J. L., 1032

K

Kaakeh, W., 899, 2137
Kabuye, V. T., 577
Kadakia, N. D., 1957
Kahn, N. D., 1810
Kaiser, L., 9
Kalish, A., 222
Kaliyan, N., 618
Kamali, K., 35
Karr, L. L., 899
Kaufman, P. E., 1739, 1744
Kavallieratos, N. G., 1058, 1404, 1499, 1733
Keasar, T., 222
Keena, M., 47
Kegley, S., 1614
Keil, C. B., 342
Kemp, W. P., 1077, 1917
Kennedy, G. G., 765, 1248, 1435, 1810
Kerhoas, L., 9
Khrimian, A., 1139
Kilpatrick, A. L., 814
Kindler, S. D., 95
King, J. E., 899, 930
Kirkham, M. B., 595
Klein, M. G., 694
Klotz, J., 2089
Koch, M., 389, 588
Koch, R. L., 780
Kofoid, K. D., 595
Kohler, G. R., 988
Konstantopoulou, M. A., 1943
Kontodimas, D. C., 1733
Kovanci, O. B., 1248
Kratochvil, R. J., 103
Krenzer, E. G., 95
Kristensen, M., 1305, 1341
Kriticos, D. J., 1187
Krivenko, A. J., 976
Kuhar, T. P., 72
Kuldau, G. A., 103
Kullik, S. A., 1594
Kumar, R., 210
Kumar, V., 1163

L

Lacey, L. A., 1459, 1863
Lahue, S. S., 129
Laine, R. A., 41
Lambkin, T. A., 938
LaMotte, L. R., 82
Lance, D. R., 47
Lange, C. L., 2210
Langham, M.A.C., 2020
Lanka, S. K., 2246
Larson, R. G., 1723
Laub, C. A., 72
Lawrence, N., 2210
Lax, A. R., 502, 1451, 2160
Lazar, M. D., 1024
Leach, D. N., 1259
Lee, C. Y., 2169
Lee, E. A., 1580
Lee, J.-H., 457
Leidy, R. B., 1275
Lembo, A., Jr., 757
Leonard, B. R., 82
Lesage, L., 845
Leskey, T. C., 143, 2121
Levie, A., 704
Levy, K., 61
Lewis, E. E., 1884
Li, A. Y., 552
Li, H., 1333
Li, S. Y., 1870, 1876
Liburd, O. E., 154
Lim, S. P., 2169
Lin, C., 1369
Linker, H. M., 1275
Liu, J., 1580
Liu, J.-L., 1144
Liu, Y.-B., 1899
Lognay, G., 656
López, C., 464
Lord, J. C., 683
Loughin, T. M., 683
Lowery, D. T., 188
Luster, D., 1441
Lux, S., 1139

M

Ma, Y.-T., 1357
MacIntyre-Allen, J. K., 2272
Mackey, B., 1551
MacRae, T. C., 577
Maghirang, E. B., 2282
Mahon, R. J., 1382
Mahroof, R., 626
Maier, R. M., 891
Mallinger, R. E., 1267
Maluleke, M. H., 384
Malvar, R. A., 982, 1349, 1694
Mangan, R. L., 1950
Mannion, C. M., 694
Marceau, J., 367
Marec, F., 248
Margolies, D. C., 1040
Marlier, M., 656
Marot, C., 656
Martínez-Carrillo, J. L., 2203
Mason, K. S., 415
Mastro, V. C., 2292
Mauriello, V., 557
Maxwell, E., 415
Mayo, Z. B., 202
Mazomenos, B. E., 1499, 1943
Mbata, G. N., 1070
McAllister, C. D., 955
McClaughlin, J. R., 317
McCullough, D. G., 1603
McDowell, R. M., 47
McGovern, J. E., 326
McInnis, D. O., 1539

McKelvey, S. R., 2041
McKenzie, C. L., 1242
McLaughlin, J. R., 334
McLeod, D.G.R., 1594
McLeod, P., 2095
McManus, B. L., 1957, 1992
McPherson, R. M., 129, 577
McQuate, G. T., 1170, 1539
Medeiros, A. H., 1704
Meers, T. L., 1399, 1937
Meinke, L. J., 1294
Melis, M., 267
Mendez, M. E., 1510
Merritt, M. A., 2210
Messenger, M. T., 916, 1421
Meza, J. S., 1930
Michaud, J. P., 1032
Michels, G. J., Jr., 1024
Miklos, J. A., 577
Miles, M., 2210
Milillo, P., 2235
Miller, D. R., 2033, 2058
Miller, G. A., 1791
Miller, J. R., 1267
Miller, R. H., 996
Miller, T. A., 667
Milutinovíc, M., 1404
Mirhosseini, S. Z., 1717
Mishra, T. P., 1957
Mitchell, P. D., 961, 2220
Moar, W. J., 1357
Moharramipour, S., 35
Morales, H., 821
Moreau, D. L., 862
Morey, R. V., 618
Morgan, D.J.W., 1664
Morin, S., 635
Moyseenko, J. J., 694
Mullis, S. W., 129
Muñiz, M., 2266
Munyaneza, J. E., 279, 1824
Murray, D., 1839, 2210
Murray, K. D., 1744
Mutwiwa, U. N., 1221
Myers, S. W., 113, 2006

N

Nagaraj, N., 595
Nagaraju, J., 248
Naranjo, S. E., 1294
Nault, B. A., 836, 884
Nay, J. E., 725
Nechols, J. R., 683, 1040
Neven, L. G., 248, 299, 709, 1863
Nigg, H. N., 1641
Nombela, G., 2266
Nowatzki, T. M., 1
Nutter, F. W., Jr., 673
Nyamanzi, T , 95

O

O'Brien, K. S., 2153
O'Connor, L., 342
Oleson, J. D., 1
Oliveira, L., 1880
Oliver, J. B., 694
Olsen, K. M., 1007, 1382
Oman, S. D., 739
Onstad, D. W., 518, 534, 961, 1157, 2220
Opit, G. P., 1040
Oppert, B., 1333
Ordás, A., 982, 1694
Orozco, D., 1930
Orr, D. B., 409
Oryang, D. O., 47
Osborne, S. L., 2020
Osbrink, W.L.A., 2160
Otranto, D., 2235
Ottea, J. A., 955
Ovadia, S., 135
Oyediran, I. O., 1126, 1679

P

Paisley, S., 2307
Palyvos, N. E., 1058
Pampapathy, G., 210, 568, 2246
Pang, H., 274
Paradise, M. S., 577
Park, Y.-L., 1, 121, 378, 457
Pascual, S., 2266
Pataky, J. K., 673
Paulson, G. S., 423
Payton, M., 95, 1070
Peairs, F. B., 389, 588, 1698
Peck, S. L., 1170, 1539
Pedley, R., 732
Pelz, K. S., 432
Perez-Mendoza, J., 2282
Perring, T. M., 725
Peruquetti, R. C., 260
Philip, M. M., 409
Phillips, T. W., 1070
Philogène, B.J.R., 845
Phithamma, S., 449
Pierce, C.M.F., 534
Pilcher, C. D., 237
Pitts-Singer, T. L., 1785
Pluta, R. C., 2079
Poehling, H.-M., 438
Polavarapu, S., 1236
Ponzi, M., 651
Potter, D. A., 891, 1202
Pourmirza, A. A., 2176
Powell, R., 1839
Premachandra, D.W.T.S., 438
Puterka, G. J., 1242, 2079

Q

Qin, Y., 274
Quick, J. S., 389, 588
Quinton, S. E., 395

R

Raina, A. K., 1451
Ramdas, P. K., 1163
Ramírez-Lepe, M., 1494
Ramírez-Suero, M., 1494
Randolph, T. L., 389, 588, 1698
Raptopoulos, D. G., 1943
Rasikari, H. L., 1259
Rasmont, P., 656
Ratcliffe, S. T., 534, 1587
Ratliff, C. R., 485
Raupp, M. J., 2133
Reagan, T. E., 955, 1018
Reardon, R. C., 2292
Reasor, C., 1739, 1744
Reay-Jones, F.P.F., 955
Redak, R. A., 1664
Reed, T. P., 1267
Reese, J. C., 202, 595, 2260
Regali, A., 656
Remmen, L. N., 906, 911
Renard, B., 557
Revilla, P., 982, 1349, 1694
Revis, H. C., 1539
Rice, M. E., 237
Ridsdill-Smith, J. T., 568
Ridsdill-Smith, T. J., 2246
Riedell, W. E., 2020
Riley, D. G., 1622, 2107
Rinderer, T. E., 1796
Riseman, A., 1560
Rithner, C. D., 1669
Robacker, D. C., 373, 1517
Robertson, S. P., 1229
Robinson, A. S., 248
Robinson, J.R.C., 1977
Robinson, J.R.C., 796
Robinson, M., 1831
Robles-Olvera, V., 1494
Rodríguez, J. C., 2203
Rodríguez-Del-Bosque, L. A., 2203
Rojas-Wiesner, M. L., 821
Rong, Z., 1911
Rosenberg, O., 402
Roth, G. W., 103
Roulston, T. H., 790
Roush, R. T., 2188
Rowëll, B., 449
Royer, T. A., 95
Rudd, J. C., 1024
Rudolph, J. B., 1698
Ruffinengo, S., 651
Rull, J., 1510
Russo, J. M., 103
Rust, M. K., 1284, 2089
Rutz, D. A., 1739, 1744

S

Sabbahi, R., 367
Saber, M., 35
Sackett, T. E., 1648

Salgado, E., 373
Sánchez-Arroyo, H., 2203
Sandoya, G., 1694
Santiago, R., 1349
Sappington, T. W., 749
Saran, R. K., 1284
Satta, A., 267
Satthaporn, K., 449
Sauvion, N., 557
Sawyer, A. J., 47
Saxena, R. C., 1163
Schaafsma, A. W., 1580, 1594
Schal, C., 1248, 1275
Scharf, M. E., 485, 933
Schliekelman, P., 18
Scholl, P. J., 2301
Schotzko, D. J., 805
Schroeder, J. B., 1587
Schulze, T. L., 976
Sciarappa, W. J., 1236
Sciarretta, A., 1058
Scott, A. W., Jr., 796
Scott, I. M., 845
Scott, J. G., 171
Scott, K. D., 2210
Scott, L. J., 2210
Scott-Dupree, C. D., 1685, 2272
Seager, D. C., 1539
Sears, M. K., 1580, 1594
Seldon, D. S., 1187
Sétamou, M., 749, 1018
Sexson, D. L., 716
Shadparvar, A. A., 1717
Shapiro-Ilan, D. I., 1884
Sharma, H. C., 210, 568, 2246
Shelly, T. E., 61
Shelton, A. M., 836, 884, 2188
Shields, E. J., 757
Shipp, J. L., 1480
Shono, T., 171
Showler, A. T., 373, 796, 1018, 1572, 1977
Shufran, K. A., 217
Shuler, R. E., 790
Shuman, D., 1723
Siderhurst, M. S., 1669
Sidumo, A. J., 757
Siebert, M. W., 82
Siegfried, B. D., 1294, 1320
Silverman, J., 493
Simões, N., 1880
Sisterson, M. S., 635, 1751
Sivinski, J. M., 1641
Skinner, A. C., 1876
Sloderbeck, P. E., 2181
Smirle, M. J., 188
Smith, C. M., 595, 2260
Smith, P. F., 2028
Snodgrass, G. L., 177
Snyder, J. C., 1710
Snyder, J. L., 1486
Sorensen, K. A., 159
Sorenson, C. E., 159
Souto, X. C., 1349
Spencer, J. L., 961
Spencer, T., 1320
Spooner-Hart, R. N., 1259
Spurgeon, D. W., 749
Srinivasan, R., 1101
Stanley, D., 2203
Stark, J. D., 1551
Starkey, S. R., 2181
Stavrakis, N. G., 1943
St. Clair, D. A., 988
Stebbing, J. A., 1294
Steffey, K. L., 534
Steinberg, S., 222
Stelinski, L. L., 1267
Stephenson, M. G., 129
Stevens, J., 2235
Stevenson, D. E., 1179
Story, R. N., 159
Stringham, S. M., 229
Stubbs, J. R., 588
Su, N.-Y., 471, 906, 911, 916, 1421, 2143
Subramanyam, B., 626
Suckling, D. M., 732, 1187, 1531
Sullivan, B. T., 2067
Sullivan, M. J., 814
Sun, L., 1325
Surampalli, R. Y., 1890
Sutton, D., 2028
Sweets, L. E., 2013
Sylva, C. D., 1170

T

Tabashnik, B. E., 635, 947, 1751
Tang, J., 1905
Tantau, H.-J., 1221
Tatsi, G. T., 1499
Teixeira, L.A.F., 1236
Terán-Vargas, A. P., 2203
Thacker, R. R., 1710
Thier, R., 1614
Thomas, D. B., 1950
Throne, J. E., 2282
Tingey, W. M., 1704
Toedebusch, A. S., 577
Toews, M. D., 1391
Tollefson, J. J., 1, 121, 237, 378, 1957
Tolman, J. H., 1685, 2272
Tomanovíc, S., 1404
Torres, A. N., 1213
Tort, S., 464
Toscano, N. C., 182
Tracy, W. F., 982
Traversa, D., 2235
Trematerra, P., 1058
Tubbs, H., 1796
Tuinstra, M. R., 595
Turnipseed, S. G., 814
Tyagi, R. D., 1890

U

Umina, P. A., 307
Underwood, R. M., 1802
Unnithan, D. C., 635
Unnithan, G. C., 635
Unruh, T. R., 299
Upton, J. E., 1824

V

Vacante, V., 1524
Valéro, J. R., 1890
Vargas, R. I., 1539, 1551
Vargo, E. L., 1421
Vaughn, T. T., 1126, 1320
Vayias, B. J., 1404
Velasco, P., 982
Verhaeghe, J.-C., 656
Verma, M., 1890
Vernon, P., 704
Vernon, R. S., 1560, 1999
Veroniki, M. A., 1733
Viegas, A., 577
Villanueva, R. T., 2114
Villaverde, R., 1506
Vincent, C., 1648
Viville, P., 656
Voegtlin, D. J., 1157
Voight, D. G., 103
von Elsner, B., 1221
Vreysen, M., 248

W

Waldron, J. K., 1739, 1744
Waldvogel, M. G., 1275
Walgenbach, J. F., 765, 1248, 1810, 2114
Waliwitiya, R., 1560
Walker, C. B., 389, 588
Wallace, M. S., 2049
Wallis, C. M., 1441
Wan, P., 195
Wang, A.-H., 1144
Wang, B., 2292
Wang, C., 899
Wang, M.-Y., 1144
Wang, S., 1905
Wang, Y., 1911
Waterman, P. G., 1259
Watson, D. W., 229
Weathersbee, A. A., III, 1242
Weaver, D. K., 1723
Wedberg, J. L., 113, 2006
Wee, S. L., 732
Wegner, G. S., 664
Weinzierl, R. A., 673
Wellman-Desbiens, É., 1469

Weng, Y., 1024
Weslien, J., 402
West, M., 1391
West, S., 1566
White, J., 66
White, J. C., 154
White, N.D.G., 1413
Whitehand, L. C., 1116
Whitworth, R. J., 2181
Wilburn, T. D., 875
Wilcke, W. F., 618
Wilde, G. E., 595, 2181
Wilkinson, K. S., 2210
Williams, G. M., 1275
Wilson, T. A., 237
Wise, J. C., 432
Wolkowski, R. P., 113
Wright, M. S., 1451
Wright, R. J., 202, 1294
Wu, J.-C., 1144
Wu, K., 195
Wu, Y., 943
Wyman, J. A., 716

X

Xie, J., 899
Xu, L., 1911

Y

Yafuso, C., 947
Yang, Y., 943
Yee, W. L., 1654
Youngman, R. R., 72
Yu, Y.-S., 1144
Yue, J.-F., 1144
Yuval, B., 61

Z

Zahavi, T., 135
Zanelli, M., 1374
Zavala, J. A., 821
Zeng, Z., 274
Zerba, E., 1506
Zhan, G., 1911
Zhang, J., 1325
Zhang, R., 1179
Zhang, X., 1710
Zhang, Y., 195
Zhao, J.-Z., 2188
Zhou, X., 1325
Zhu, B.C.R., 41
Zhu, K. Y., 1333, 2181
Zhu, L. C., 2260
Zhu, Y. C., 1566
Zurowski, C. L., 188
Zwiener, C. M., 2013

CUMULATIVE KEY WORD INDEX
Journal of Economic Entomology
Volume 98, 2005

A

abamectin,
cyromazine, 1831
Liriomyza, 1831
mancozeb, 1831
parasitoid, 1831
Acalymma vittatum,
Cucurbitaceae, 159
Diabrotica balteata, 159
Diabrotica undecimpunctata howardi, 159
Ipomoea batatas, 159
Acanthocinus obsoletus,
ipsdienol, 2033
ipsenol, 2033
Monochamus titillator, 2033
trap lure, 2033
Acarapis woodi,
Italian honey bees, 1796
overwinter, 1796
Russian honey bees, 1796
tracheal mites, 1796
acari,
Neoseiulus fallacis, 2114
nicotinoid, 2114
reduced-risk insecticides, 2114
acaricide,
Boophilus microplus, 552
carbaryl, 552
cattle tick, 552
resistance, 552
acclimation,
aphid, 704
cold storage, 704
parasitoid, 704
accuracy,
Aculops pelekassi, 1048
detection, 1048
Phyllocoptruta oleivora, 1048
precision, 1048
Acrosternum hilare,
E. tristigmus, 143
Euschistus servus, 143
insect traps, 143
monitoring, 143
action threshold, 1213, 1229
apples, 1229
economic injury level, 1213
insect pest management, 1213
integrated pest management, 1229
Listronotus oregonensis, 1213
Petroselinum crispum, 1213
Platynota idaeusalis, 1229
predictive model, 1229
Aculops pelekassi,
accuracy, 1048
detection, 1048
Phyllocoptruta oleivora, 1048
precision, 1048
Adh strains,
antimicrobial, 1943
Bactrocera oleae, 1943
microorganisms, 1943
volatile compounds, 1943
Aedes aegypti,
Bacillus thuringiensis, 1494
biological control, 1494
nixtamalized corn flour, 1494
Aethina tumida,
honey bee, 1791
pest management, 1791
upper hive entrance, 1791
AFF lure,
Anastrepha ludens, 1517
attractants, 1517
BioLure, 1517
fruit fly, 1517
Agaricus,
development, 342
Lycoriella mali, 342
Pleurotus, 342
shiitake, 342
aggregation,
Coptotermes formosanus, 502
feeding behavior, 502
feeding stimulant, 502
tunneling behavior, 502
aging,
beet armyworm, 373
pheromone, 373
Spodoptera exigua, 373
Agriotes obscurus, 1560, 1999
contact toxicity, 1560
cultural control, 1999
Elateridae, 1999
fumigant toxicity, 1560
insecticidal activity, 1560
lethal trap crops, 1999
monoterpenoids, 1560
wireworms, 1999
alate,
dose response, 1451
field study, 1451
Formosan, 1451
pathogenicity, 1451
alfalfa leafcutting bee,
Ascosphaera aggregata, 1094
chalkbrood, 1094
disease control, 1094
Megachile rotundata, 1094
alfalfa pollination,
Ascosphaera, 1077
foraging behavior, 1077
immature mortality, 1077
Megachile rotundata, 1077
alfalfa weevil, 72, 2028
distribution, 2028
genetic strains, 2028
glandular-haired alfalfa, 72
H. brunneipennis, 2028
Hypera postica, 2028
potato leafhopper, 72
resistant alfalfa, 72
Alphitobius diaperinus, 229, 938, 1739, 1744
broiler house, 938
darkling beetle, 229, 1739, 1744
fenitrothion, 938
insecticide resistance testing, 938
integrated pest management, 1744
IPM, 1739
litter beetle, 229, 1739, 1744
poultry litter, 229
poultry manure, 1739, 1744
poultry pest management, 229
alternate hosts,
tobacco thrips, 1810
western flower thrips, 1810
Amblyseius fallacis,
ground cover, 862
Tetranychus urticae, 862
Typhlodromus pyri, 862
weather, 862
amino acids,
Arbutus, 656
Bombus, 656
pollination, 656
sterols, 656
Anacanthotermes ochraceus,
damage assessment, 2137
resistance, 2137
wood, 2137
Anastrepha, 1930, 1950
bait sprays, 1950
Diptera, 1930
mating competitiveness, 1930
pupal weight, 1930
Secondary pests, 1950
Tephritidae, 1930

Anastrepha ludens, 1510, 1517, 1905
AFF lure, 1517
attractants, 1517
BioLure, 1517
commodity treatment, 1905
fruit fly, 1517
heat treatment, 1905
irradiation doses, 1510
mating competitiveness, 1510
phytosanitary, 1905
quarantine, 1905
sterile insect technique, 1510
sterility induction, 1510
Annonaceae,
beneficial insect, 1193
custard apple, 1193
ecosystem service, 1193
Nitidulidae, 1193
Anoplophora,
fumigation, 1911
methyl bromide, 1911
Populus, 1911
quarantine, 1911
Anoplophora glabripennis,
eradication, 47
landfills, 47
pathway analysis, 47
wood waste, 47
Anthonomus grandis,
cotton, 796
partial budgeting, 796
planting date, 796
subtropics, 796
Anthonomus grandis grandis, 749, 1572
boll weevil, 749, 1572
cotton, 749
feeding, 1572
oviposition, 1572
reproductive indices, 749
square size, 1572
antiaggregation pheromone,
disruptant, 2041
nonhost volatiles, 2041
pest management, 2041
Pinus ponderosa, 2041
antibiosis, 603, 2254, 2260
antixenosis, 2260
Cryptorhynchus lapathi, 2254
hybrid poplar, 2254
PI 386156, 603
PI 611811, 603
Populus maximowiczii, 2254
resistance, 2254
Rhopalosiphum padi, 603
Schizaphis graminum, 2260
tolerance, 603, 2260
wheat, 2260
antibiosis and tolerant sorghum hybrids,
biological control, 202
parasitoid, 202
resistance, 202
antimicrobial,
Adh strains, 1943
Bactrocera oleae, 1943
microorganisms, 1943
volatile compounds, 1943
antixenosis, 1710, 2260
antibiosis, 2260
Lycopersicon, 1710
plant breeding, 1710
Schizaphis graminum, 2260
sesquiterpenoid, 1710
tolerance, 2260
trichome, 1710
wheat, 2260
ants,
Geoica, 891
Lasius neoniger, 891
root aphids, 891
turfgrass, 891
aphid, 188, 704, 1899
acclimation, 704
Aphis pomi, 188
Aphis spiraecola, 188
cold storage, 704
imidacloprid, 188
lettuce, 1899
parasitoid, 704
postharvest, 1899
quarantine treatment, 1899
tolerance, 188
toxicity, 188
ultralow oxygen, 1899
aphid density,
Aphis glycines, 2006
insect control, 2006
aphid parasitoid,
pesticide residues, 9
population, 9
risk assessment, 9
toxicity, 9
aphid-trapping,
population dynamics, 1441
Potyvirus, 1441
Prunus, 1441
Aphis glycines, 113, 2006
aphid density, 2006
insect control, 2006
life table, 113
potassium deficiency, 113
soybean, 113
Aphis gossypii, 996, 1325
carboxylesterase, 1325
Colocasia esculenta, 996
gene, 1325
host resistance, 996
insecticide resistance, 1325
polymorphism, 1325
taro, 996
Xanthosoma sagittifolium, 996
Aphis pomi,
aphids, 188
Aphis spiraecola, 188
imidacloprid, 188
tolerance, 188
toxicity, 188
Aphis spiraecola,
aphids, 188
Aphis pomi, 188
imidacloprid, 188
tolerance, 188
toxicity, 188
Apiformes,
Apoidea, 1785
lucerne, 1785
Medicago, 1785
Megachilidae, 1785
Apis mellifera, 274, 367, 645, 1802
behavioral development, 274
Brassica napus, 367
CT product, 1802
drone removal, 645
drone trap, 645
IPM, 645
juvenile hormone, 274
pod set, 367
pollination, 367
seed production, 367
swarming, 274
treatment, 1802
Varroa destructor, 645, 1802
Apoidea,
Apiformes, 1785
lucerne, 1785
Medicago, 1785
Megachilidae, 1785
apple, 875, 1229, 1248, 1459, 2121
action thresholds, 1229
Choristoneura rosaceana, 875
commercial formulation, 1459
Cydia pomonella granulovirus, 1459
dogwood borer, 2121
instar determination, 875
integrated pest management, 1229
inundative biological control, 1459
mating disruption, 1248
Pandemis pyrusana, 875
persistence, 1459
phenology, 875
pheromones, 1248
Platynota idaeusalis, 1229
predictive model, 1229
rootstocks, 2121
Sesiidae, 2121
Synanthedon scitula, 2121

Arbutus,
amino acids, 656
Bombus, 656
pollination, 656
sterols, 656
areawide control,
beneficial arthropod, 1957
Diabrotica spp., 1957
nontarget organism, 1957
semiochemical, 1957
Areawide management,
Colorado potato beetle, 716
crop rotation, 716
integrated pest management, 716
areawide population management,
fipronil, 2143
noviflumuron, 2143
thiamethoxam, 2143
Ascosphaera,
alfalfa pollination, 1077
foraging behavior, 1077
immature mortality, 1077
Megachile rotundata, 1077
Ascosphaera aggregata,
alfalfa leafcutting bee, 1094
chalkbrood, 1094
disease control, 1094
Megachile rotundata, 1094
aster yellows,
Circulifer tenellus, 279
insect vector, 279
PCR, 279
potato purple top, 279
attract and kill, 317, 334
attracticide, 317
lure and kill, 317, 334
mating disruption, 317, 334
orchard pest management, 334
pheromone, 317, 334
attractant, 476, 1139, 1517
AFF lure, 1517
Anastrepha ludens, 1517
BioLure, 1517
carbon dioxide, 476
ceralure B1, 1139
Ceratitis capitata, 1139
fruit fly, 1517
lure, 1139
Reticulitermes, 476
termites, 476
trimedlure, 1139
attracticide,
attract and kill, 317
lure and kill, 317
mating disruption, 317
pheromone, 317
attraction,
feeding, 1654
GF-120 NF Naturalyte Fruit Fly Bait, 1654
Rhagoletis indifferens, 1654
spinosad concentrations, 1654
augmentaion biological control,
Rhyacionia frustrana, 409
tebufenozide, 409
Trichogramma exiguum, 409
automated monitoring,
detection, 1723
grain probe trap, 1723
infrared sensors, 1723
stored-product insects, 1723
azadirachtin,
pyrethrum, 1236
Rhagoletis mendax, 1236
spinosad, 1236
Vaccinium, 1236

B

Bacillus thuringiensis, 402, 464, 578, 635, 947, 1007, 1126, 1311, 1357, 1469, 1494, 1751, 1880, 1890, 2188
Aedes aegypti, 1494
biological control, 402, 1494, 1880
biopesticide, 1890
Bt crops, 947
cone insects, 402
cotton cultivars, 947
Cry1Ac, 1007
Diabrotica virgifera virgifera, 1126
diamondback moth, 2188
diapause, 464
dispersal, 1751
efficacy, 1007
fitness, 1311
fitness costs, 947
genetically modified crops, 635, 1751
genetics, 635
Helicoverpa armigera, 1007, 1311
Hemiptera, 1469
high dose, 578
large-scale spraying, 402
larval mortality, 1880
larval movement, 1126
Lepidoptera, 578
linkage, 1357
liquid formulation, 1890
Lygus hesperus, 1469
mRNA, 1007
nixtamalized corn flour, 1494
Pectinophora gossypiella, 635
Phyllocnistis citrella, 1880
Plutella xylostella, 2188
PR-1A promoter, 2188
refuge, 1751
resistance, 635, 1311, 1357
resistance management, 578, 947, 1126, 1751, 2188
Sesamia nonagrioides, 464
soya, 1890
spruce seed orchard, 402
starch industry wastewater, 1890
tobacco budworm, 1357
transgenic, 1126
transgenic corn, 464
transgenic cotton, 1311
transgenic soybean, 578
δ-endotoxins, 1469
Bactrocera cucurbitae, 1170, 1551
Bactrocera dorsalis, 1170, 1551
Ceratitis capitata, 1170
fipronil, 1551
male annihilation, 1551
phloxine B, 1170
spinosad, 1170
suppression, 1551
Bactrocera dorsalis, 1170, 1551
Bactrocera cucurbitae, 1170, 1551
Ceratitis capitata, 1170
fipronil, 1551
male annihilation, 1551
phloxine B, 1170
spinosad, 1170
suppression, 1551
Bactrocera oleae,
Adh strains, 1943
antimicrobial, 1943
microorganisms, 1943
volatile compounds, 1943
baculovirus,
biopesticide, 1839
Helicoverpa armigera, 1839
Helicoverpa armigera stunt virus, 1839
tetravirus, 1839
bait, 493, 1284
carbohydrates, 1284
competition, 493
foraging, 493
Linepithema humile, 493
Monomorium minimum, 493
phagostimulants, 1284
subterranean termites, 1284
bait sprays, 432, 1950
Anastrepha, 1950
behavior, 432
insect control, 432
Rhagoletis mendax, 432
Rhagoletis pomonella, 432
Secondary pests, 1950
Barbarea vulgaris,
management, 884
Plutella xylostella, 884
trap crop, 884
bark beetle,
biological control, 1614
Dendroctonus ponderosae, 1614
pheromone, 1614

semiochemical, 1614
bark scorpions,
Centruroides exilicauda, 1486
entomopathogenic nematodes, 1486
Heterorhabditis, 1486
Steinernema, 1486
barley, 1404, 1969
diatomaceous earth, 1404
harvest index, 1969
insecticidal effect, 1404
rice weevil, 1404
sink-limitation, 1969
subarctic, 1969
wheat, 1404
yield, 1969
Barley yellow dwarf virus, 2013, 2020
cereal aphid, 2013
cereal aphids, 2020
planting date, 2020
Rhopalosiphum padi, 2013, 2020
winter wheat, 2013
yield loss, 2013
barrier treatment,
Coptotermes formosanus, 509
liquid termiticides, 509
penetration, 509
Reticulitermes flavipes, 509
Beauveria bassiana,
botanical insecticides, 683
mineral oil, 683
Silwet L-77, 683
Tribolium castaneum, 683
bedding plants,
binomial sampling, 1040
floriculture, 1040
spider mites, 1040
beet armyworm,
aging, 373
pheromone, 373
Spodoptera exigua, 373
behavior, 432, 1221
bait sprays, 432
films, 1221
insect control, 432
Rhagoletis mendax, 432
Rhagoletis pomonella, 432
Trialeurodes vaporariorum, 1221
UV-absorbing, 1221
behavioral development,
Apis mellifera, 274
juvenile hormone, 274
swarming, 274
Bemisia argentifolii,
biorational, 1242
silverleaf whitefly, 1242
sugar ester, 1242
Bemisia tabaci, 557, 2266
Bion, 2266
BTH, 2266
Cucumis melo, 557
host plant resistance, 557
induced resistance, 2266
population dynamics, 557
sweetpotato whitefly, 2266
Va gene, 557
beneficial arthropod,
areawide control, 1957
Diabrotica spp., 1957
nontarget organism, 1957
semiochemical, 1957
beneficial insect,
Annonaceae, 1193
custard apple, 1193
ecosystem service, 1193
Nitidulidae, 1193
binomial sampling,
bedding plants, 1040
floriculture, 1040
spider mites, 1040
bioassay, 415, 1150, 1320
Bt susceptibility, 1320
Diabrotica, 1150
Diabrotica virgifera virgifera, 1320
feeding stimulants, 1150
geographic variability, 1320
insect behavior, 1150
insect growth regulator, 415
larvae, 415
methoxyfenozide, 415
rootworm larvae, 1150
tebufenozide, 415
bioassay method,
Leptinotarsa decemlineata, 2176
phosalone, 2176
susceptibility, 2176
biological control, 35, 202, 402, 725, 1494, 1524, 1614, 1880
Aedes aegypti, 1494
antibiosis and tolerant sorghum hybrids, 202
Bacillus thuringiensis, 402, 1494, 1880
bark beetle, 1614
Coenosia attenuata, 1524
cone insects, 402
cultural control, 725
Dendroctonus ponderosae, 1614
functional response, 1524
insecticides, 35
integrated pest management, 725
large-scale spraying, 402
larval behavior, 725
larval mortality, 1880
nixtamalized corn flour, 1494
parasitoid, 202
pheromone, 1614
Phyllocnistis citrella, 1880
resistance, 202
semiochemical, 1614
side effect, 35
spruce seed orchard, 402
temperature, 1524
Trissolcus grandis, 35
BioLure,
AFF lure, 1517
Anastrepha ludens, 1517
attractants, 1517
fruit fly, 1517
Bion,
Bemisia tabaci, 2266
BTH, 2266
induced resistance, 2266
sweetpotato whitefly, 2266
biopesticide, 1839, 1890
Bacillus thuringiensis, 1890
baculovirus, 1839
Helicoverpa armigera, 1839
Helicoverpa armigera stunt virus, 1839
liquid formulation, 1890
soya, 1890
starch industry wastewater, 1890
tetravirus, 1839
biorational,
Bemisia argentifolii, 1242
silverleaf whitefly, 1242
sugar ester, 1242
biosecurity,
dispersal, 1531
Lymantriidae, 1531
sterile insect, 1531
Teia anartoides, 1531
Biotin,
Bt, 1566
Lepidoptera, 1566
synergism, 1566
black vine weevil,
Heterorhabditis, 1884
host cadavers, 1884
ornamentals, 1884
Steinernema, 1884
Blattella germanica, 930, 1275
chitin synthesis inhibitor, 930
German cockroach, 1275
IPM, 1275
noviflumuron, 930
ovicidal activity, 930
school IPM, 1275
boll development,
preference, 82
sampling, 82
stink bugs, 82
boll weevil, 749, 1572, 1977
Anthonomus grandis grandis, 749, 1572
cotton, 749, 1977

feeding, 1572
insecticide, 1977
oviposition, 1572
proactive, 1977
reproductive indices, 749
square size, 1572
threshold, 1977
Bollgard, 88, 2203
Bollgard II, 88
cotton, 2203
Heliothis virescens, 2203
insect behavior, 88
insecticide resistance, 2203
integrated pest management, 88
pyrethroids, 2203
Bollgard II,
Bollgard, 88
insect behavior, 88
integrated pest management, 88
Bombus,
amino acids, 656
Arbutus, 656
pollination, 656
sterols, 656
Boophilus microplus,
acaricide, 552
carbaryl, 552
cattle tick, 552
resistance, 552
borer,
phenology, 1179
rice, 1179
Scirpophaga incertulas, 1179
boric acid,
crop load, 2153
Solenopsis invicta, 2153
starvation, 2153
viscosity, 2153
botanical insecticides,
Beauveria bassiana, 683
mineral oil, 683
Silwet L-77, 683
Tribolium castaneum, 683
Brachymeria excarinata,
Brassica oleracea, 449
Cotesia plutellae, 449
Diadromus collaris, 449
Macromalon orientale, 449
Bradysia spp., 1399, 1937
efficiency, 1399
fecundity, 1937
flotation/extraction method, 1937
$MgSO_4$ flotation, 1399
oviposition, 1937
quantitative sampling, 1399
soilless growing media, 1399, 1937
Brassica napus,
Apis mellifera, 367
pod set, 367
pollination, 367
seed production, 367
Brassica oleracea,
Brachymeria excarinata, 449
Cotesia plutellae, 449
Diadromus collaris, 449
Macromalon orientale, 449
breeding system,
Isoptera, 1421
microsatellite genotyping, 1421
Rhinotermitidae, 1421
broiler house,
Alphitobius diaperinus, 938
fenitrothion, 938
insecticide resistance testing, 938
brown stink bug,
green stink bug, 177
insecticides, 177
southern green stink bug, 177
bruchid resistance,
Callosobruchus maculatus, 1369
mungbean, 1369
VrD1, 1369
Bt, 237, 1566
Biotin, 1566
Diabrotica, 237
Lepidoptera, 1566
maize, 237
Ostrinia nubilalis, 237
survey, 237
synergism, 1566
Bt corn, 103, 2220
crop rotation, 2220
density dependence, 2220
Diabrotica barberi, 2220
economics, 103
European corn borer, 103
Ostrinia nubilalis, 103
resistance management, 2220
verification, 103
Bt crops,
Bacillus thuringiensis, 947
cotton cultivars, 947
fitness costs, 947
resistance management, 947
Bt resistance management,
Bt toxicity, 1333
cross-resistance, 1333
Cry protoxins, 1333
European corn borer, 1333
Bt susceptibility,
bioassay, 1320
Diabrotica virgifera virgifera, 1320
geographic variability, 1320
Bt toxicity,
Bt resistance management, 1333
cross-resistance, 1333
Cry protoxins, 1333
European corn borer, 1333
Bt transgenic cotton,
China, 195
Helicoverpa armigera, 195
insecticidal protein expression, 195
population dynamics, 195
BTH,
Bemisia tabaci, 2266
Bion, 2266
induced resistance, 2266
sweetpotato whitefly, 2266
buprofezin,
imidacloprid, 1144
JHIII, 1144
stimulation fecundity, 1144
Tryporyza incertulas, 1144
BYMV pathotypes,
epidemiology, 1816
hypersusceptibility, 1816
Trifolium spp., 1816
vector, 1816

C

cabbage maggot,
Delia radicum, 1856
entomopathogen, 1856
Metarhizium anisopliae, 1856
Calico scale,
Eulecanium cerasorum, 1202
scale insect, 1202
Callosobruchus maculatus, 1163, 1369
4-(3′;4′-dimethoxyphenyl) buta-1;3-diene, 1163
bruchid resistance, 1369
formulations, 1163
mungbean, 1369
ovicidal activity, 1163
VrD1, 1369
Zingiber purpureum, 1163
carbaryl,
acaricide, 552
Boophilus microplus, 552
cattle tick, 552
resistance, 552
carbohydrates,
baits, 1284
phagostimulants, 1284
subterranean termites, 1284
carbon dioxide,
attractant, 476
Reticulitermes, 476
termites, 476
carboxylesterase,
Aphis gossypii, 1325
gene, 1325

insecticide resistance, 1325
polymorphism, 1325
Carpophilus lugubris,
Helicoverpa zea, 856
insect predators, 856
Ostrinia nubilalis, 856
cassava genotypes,
resistance, 611
whitefly infestation, 611
categories of resistance,
Diuraphis noxia, 588
wheat, 588
cattle tick,
acaricide, 552
Boophilus microplus, 552
carbaryl, 552
resistance, 552
cellulase,
fluorescence, 41
in vivo tests, 41
inhibitors, 41
β-glucosidase, 41
Centruroides exilicauda,
bark scorpions, 1486
entomopathogenic nematodes, 1486
Heterorhabditis, 1486
Steinernema, 1486
ceralure B1,
attractant, 1139
Ceratitis capitata, 1139
lure, 1139
trimedlure, 1139
Ceratitis,
nutrition, 61
sterile insect technique, 61
survival, 61
α-copaene, 61
Ceratitis capitata, 739, 1139, 1170
attractant, 1139
Bactrocera cucurbitae, 1170
Bactrocera dorsalis, 1170
ceralure B1, 1139
cold resistance, 739
lure, 1139
overwintering, 739
pest management, 739
phloxine B, 1170
sanitation, 739
spinosad, 1170
trimedlure, 1139
Ceratothripoides claratris,
neem, 438
spinosad, 438
Thailand, 438
tomatoes, 438
cereal aphid, 2013, 2020
Barley yellow dwarf virus, 2013, 2020
planting date, 2020
Rhopalosiphum padi, 2013, 2020
winter wheat, 2013
yield loss, 2013
Chaetocnema pulicaria,
disease incidence, 673
insect vector, 673
Stewart's wilt, 673
chalkbrood,
alfalfa leafcutting bee, 1094
Ascosphaera aggregata, 1094
disease control, 1094
Megachile rotundata, 1094
chemical control,
economics, 95
Rhopalosiphum padi, 95
Schizaphis graminum, 95
cherry,
controlled atmosphere, 709
Cydia pomonella, 709
quarantine, 709
chickpea, 210, 2246
Cicer reticulatum, 2246
Helicoverpa, 210
Helicoverpa armigera, 2246
host plant resistance, 2246
resistance, 210
wild relatives of chickpea, 2246
Chilo partellus,
intercropping, 384
lablab, 384
maize, 384
China,
Bt transgenic cotton, 195
Helicoverpa armigera, 195
insecticidal protein expression, 195
population dynamics, 195
Chionaspis pinifoliae,
Christmas trees, 1603
horticultural oil, 1603
IPM, 1603
Pinus sylvestris, 1603
chitin synthesis inhibitor, 899, 930
Blattella germanica, 930
German cockroach, 899
multi-family housing, 899
noviflumuron, 899, 930
ovicidal activity, 930
residual control, 899
Choristoneura rosaceana,
apple, 875
instar determination, 875
Pandemis pyrusana, 875
phenology, 875
Christmas trees,
Chionaspis pinifoliae, 1603
horticultural oil, 1603
IPM, 1603
Pinus sylvestris, 1603
chrysanthemum,
foliar application, 1480
Frankliniella occidentalis, 1480
Steinernema feltiae, 1480
Cicer reticulatum,
chickpea, 2246
Helicoverpa armigera, 2246
host plant resistance, 2246
wild relatives of chickpea, 2246
Circulifer tenellus, 279, 1824
aster yellows, 279
insect vector, 279
PCR, 279
plant pathogens, 1824
potato purple top, 279
reproduction, 1824
settling behavior, 1824
survival, 1824
clothianidin,
dinotefuran, 2292
imidacloprid, 2292
LC_{50}, 2292
thiamethoxam, 2292
Cochliomyia hominivorax,
mass rearing, 2301
quality control, 2301
sterile insect technique, 2301
transgenic insect, 2301
cocoon,
deterministic model, 1717
economic value, 1717
silkworm, 1717
codling moth,
genetic sexing, 248
insect transgenesis, 248
Lepidoptera, 248
sterile insect technique, 248
Coenosia attenuata,
biological control, 1524
functional response, 1524
temperature, 1524
coffee pest,
farmer participatory research, 821
sampling, 821
Taylor's Power Law, 821
COI,
equids, 2235
Gasterophilus, 2235
identification, 2235
phylogenesis, 2235
cold hardiness,
low temperatures, 618
minimum exposure, 618
Plodia interpunctella, 618
supercooling point, 618
cold resistance,
Ceratitis capitata, 739
overwintering, 739
pest management, 739
sanitation, 739
cold storage,
acclimation, 704
aphid, 704
parasitoid, 704

Colocasia esculenta,
Aphis gossypii, 996
host resistance, 996
taro, 996
Xanthosoma sagittifolium, 996
Colorado potato beetle,
Areawide management, 716
crop rotation, 716
integrated pest management, 716
commercial formulation,
apple, 1459
Cydia pomonella granulovirus, 1459
inundative biological control, 1459
persistence, 1459
commodity treatment,
Anastrepha ludens, 1905
heat treatment, 1905
phytosanitary, 1905
quarantine, 1905
comparative toxicity,
Diabrotica virgifera virgifera, 2181
insect pest management, 2181
insecticide susceptibility, 2181
western corn rootworm, 2181
compatibility,
insecticides, 694
Japanese beetle, 694
Popillia japonica, 694
Tiphia vernalis, 694
competition, 307, 493
bait, 493
earth mite, 307
foraging, 493
Halotydeus, 307
interactions, 307
Linepithema humile, 493
Monomorium minimum, 493
Penthaleus, 307
competitive attraction,
emulsified wax, 1267
false-plume following, 1267
mating disruption, 1267
cone insects,
Bacillus thuringiensis, 402
biological control, 402
large-scale spraying, 402
spruce seed orchard, 402
conservation biological control,
Harmonia axyridis, 780
soybean, 780
sweet corn, 780
topical assay, 780
conservation tillage,
direct seeding, 805
host plant resistance, 805
Mayetiola destructor, 805
Triticum aestivum, 805
contact insecticide,
IPM, 1391
sampling, 1391
stored-product insects, 1391
trapping, 1391
contact toxicity,
Agriotes obscurus, 1560
fumigant toxicity, 1560
insecticidal activity, 1560
monoterpenoids, 1560
controlled atmosphere, 709, 1070
cherry, 709
Cydia pomonella, 709
dried beans, 1070
methyl bromide alternative, 1070
pest management, 1070
quarantine, 709
vacuum, 1070
α-copaene,
Ceratitis, 61
nutrition, 61
sterile insect technique, 61
survival, 61
Coptotermes formosanus, 471, 502, 509, 906, 911, 2160
aggregation, 502
barrier treatment, 509
dwellings, 2160
eastern subterranean termite, 471
fast acting, 911
feeding behavior, 502
feeding stimulant, 502
fipronil, 906
Formosan subterranean termite, 471
imidacloprid, 2160
liquid termiticides, 509
penetration, 509
Reticulitermes flavipes, 471, 509, 906, 911
slow acting, 911
termite, 2160
thiamethoxam, 906
tunneling behavior, 502
two-dimensional foraging arena, 471
corn,
dispersal, 1580
kernel red streak, 1580
wheat curl mite, 1580
corn leaf stage,
corn seedling damage, 1594
degree-days, 1594
larval population structure, 1594
corn root injury,
corn rootworms, 378
Diabrotica spp., 378
geostatistics, 378
spatial dispersion, 378
corn rootworm, 1, 121, 378, 1984
corn root injury, 378
crop rotation, 1984
Cuphea, 1984
Diabrotica, 1984
Diabrotica spp., 1, 121, 378
geographic information system, 121
geostatistics, 121, 378
node-injury scale, 1
root injury, 1
root rating, 1
site-specific pest management, 121
spatial dispersion, 378
corn seedling damage,
corn leaf stage, 1594
degree-days, 1594
larval population structure, 1594
Cotesia plutellae,
Brachymeria excarinata, 449
Brassica oleracea, 449
Diadromus collaris, 449
Macromalon orientale, 449
cotton, 749, 796, 1382, 1977, 2203
Anthonomus grandis, 796
Anthonomus grandis grandis, 749
boll weevil, 749, 1977
Bollgard, 2203
Cry1Ac, 1382
efficacy, 1382
Helicoverpa armigera, 1382
Heliothis virescens, 2203
insecticide, 1977
insecticide resistance, 2203
mRNA, 1382
partial budgeting, 796
planting date, 796
proactive, 1977
pyrethroids, 2203
reproductive indices, 749
subtropics, 796
threshold, 1977
cotton cultivars,
Bacillus thuringiensis, 947
Bt crops, 947
fitness costs, 947
resistance management, 947
crop load,
boric acid, 2153
Solenopsis invicta, 2153
starvation, 2153
viscosity, 2153
crop rotation, 518, 534, 716, 1587, 1984, 2220
Areawide management, 716
Bt corn, 2220
Colorado potato beetle, 716
corn rootworm, 1984
Cuphea, 1984

density dependence, 2220
Diabrotica, 1984
Diabrotica barberi, 2220
Diabrotica virgifera virgifera, 518, 534, 1587
insect resistance management, 518, 534
integrated pest management, 716
resistance management, 2220
root injury, 1587
simulation model, 518, 534
transgenic corn, 518, 534
variant western corn rootworm, 1587
cross-resistance,
Bt resistance management, 1333
Bt toxicity, 1333
Cry protoxins, 1333
European corn borer, 1333
crossover frequency,
evolution, 171
organophosphate, 171
pyrethroid, 171
sex determination, 171
Cry protoxins,
Bt resistance management, 1333
Bt toxicity, 1333
cross-resistance, 1333
European corn borer, 1333
Cry1Ac, 1007, 1382
Bacillus thuringiensis, 1007
cotton, 1382
efficacy, 1007, 1382
Helicoverpa armigera, 1007, 1382
mRNA, 1007, 1382
Cryptophlebia leucotreta,
field cages, 1924
insect competitiveness, 1924
release ratios, 1924
Cryptorhynchus lapathi,
antibiosis, 2254
hybrid poplar, 2254
Populus maximowiczii, 2254
resistance, 2254
CT product,
Apis mellifera, 1802
treatment, 1802
Varroa destructor, 1802
Cucumis melo,
Bemisia tabaci, 557
host plant resistance, 557
population dynamics, 557
Va gene, 557
Cucumis sativus,
damage, 457
glasshouse, 457
plant growth analysis, 457
Tetranychus urticae, 457
Cucurbitaceae,
Acalymma vittatum, 159
Diabrotica balteata, 159
Diabrotica undecimpunctata howardi, 159
Ipomoea batatas, 159
cultural control, 725, 1999
Agriotes obscurus, 1999
biological control, 725
Elateridae, 1999
integrated pest management, 725
larval behavior, 725
lethal trap crops, 1999
wireworms, 1999
Cuphea,
corn rootworm, 1984
crop rotation, 1984
Diabrotica, 1984
custard apple,
Annonaceae, 1193
beneficial insect, 1193
ecosystem service, 1193
Nitidulidae, 1193
Cydia pomonella, 709, 1863
cherry, 709
controlled atmosphere, 709
entomopathogenic nematodes, 1863
formulation, 1863
fruit bins, 1863
quarantine, 709
Steinernema, 1863
Cydia pomonella granulovirus,
apple, 1459
commercial formulation, 1459
inundative biological control, 1459
persistence, 1459
cyromazine,
abamectin, 1831
Liriomyza, 1831
mancozeb, 1831
parasitoid, 1831
cytochrome P450 monooxygenase,
fenvalerate, 943
Helicoverpa armigera, 943
insecticide resistance, 943
O-demethylation, 943

D

damage, 350, 457, 1187
Cucumis sativus, 457
eucalyptus, 1187
glasshouse, 457
invasive species, 1187
peppers, 350
plant growth analysis, 457
population, 350
Tetranychus urticae, 457
Uraba lugens pheromone, 1187
Zonosemata electa, 350
damage assessment,
Anacanthotermes ochraceus, 2137
resistance, 2137
wood, 2137
damage to quality,
Ostrinia nubilalis, 395
plant insect interaction, 395
darkling beetle, 229, 1739, 1744
Alphitobius diaperinus, 229, 1739, 1744
integrated pest management, 1744
IPM, 1739
litter beetle, 229, 1739, 1744
poultry litter, 229
poultry manure, 1739, 1744
poultry pest management, 229
degree-days, 1594, 2100
corn leaf stage, 1594
corn seedling damage, 1594
Lacanobia subjuncta, 2100
larval population structure, 1594
pest management, 2100
phenology model, 2100
Weibull distribution, 2100
Delia antiqua,
entomopathogenic fungi, 1848
onion maggot, 1848
Delia radicum,
cabbage maggot, 1856
entomopathogen, 1856
Metarhizium anisopliae, 1856
deltamethrin,
Ixodes scapularis, 976
nontarget effects, 976
Dendroctonus ponderosae,
bark beetle, 1614
biological control, 1614
pheromone, 1614
semiochemical, 1614
density dependence,
Bt corn, 2220
crop rotation, 2220
Diabrotica barberi, 2220
resistance management, 2220
detached leaf assay,
Helicoverpa, 568
resistance screening, 568
transgenics, 568
detection, 1048, 1723
accuracy, 1048
Aculops pelekassi, 1048
automated monitoring, 1723
grain probe trap, 1723
infrared sensors, 1723
Phyllocoptruta oleivora, 1048
precision, 1048
stored-product insects, 1723

deterministic model,
cocoon, 1717
economic value, 1717
silkworm, 1717
deterrent,
kaolin, 2079
physical barrier, 2079
repellent, 2079
whitewash, 2079
development,
Agaricus, 342
Lycoriella mali, 342
Pleurotus, 342
shiitake, 342
Diabrotica, 237, 1150, 1984
bioassay, 1150
Bt, 237
corn rootworm, 1984
crop rotation, 1984
Cuphea, 1984
feeding stimulants, 1150
insect behavior, 1150
maize, 237
Ostrinia nubilalis, 237
rootworm larvae, 1150
survey, 237
Diabrotica balteata,
Acalymma vittatum, 159
Cucurbitaceae, 159
Diabrotica undecimpunctata howardi, 159
Ipomoea batatas, 159
Diabrotica barberi,
Bt corn, 2220
crop rotation, 2220
density dependence, 2220
resistance management, 2220
Diabrotica spp., 1, 121, 378, 1957
areawide control, 1957
beneficial arthropod, 1957
corn root injury, 378
corn rootworm, 1
corn rootworms, 121, 378
geographic information system, 121
geostatistics, 121, 378
node-injury scale, 1
nontarget organism, 1957
root injury, 1
root rating, 1
semiochemical, 1957
site-specific pest management, 121
spatial dispersion, 378
Diabrotica undecimpunctata howardi,
Acalymma vittatum, 159
Cucurbitaceae, 159
Diabrotica balteata, 159
Ipomoea batatas, 159
Diabrotica virgifera virgifera, 518, 534, 961, 1126, 1294, 1320, 1587, 1679, 2181
Bacillus thuringiensis, 1126
bioassay, 1320
Bt susceptibility, 1320
comparative toxicity, 2181
crop rotation, 518, 534, 1587
dispersal, 1294
geographic variability, 1320
glyphosate, 1679
grassy weeds, 1679
insect pest management, 2181
insect resistance management, 518, 534, 961
insecticide susceptibility, 2181
integrated pest management, 961
larval movement, 1126
modeling, 961
MON863, 1679
movement, 1294
resistance management, 1126, 1294
root injury, 1587
simulation model, 518, 534
transgenic, 1126
transgenic corn, 518, 534, 961
variant western corn rootworm, 1587
western corn rootworm, 2181
Diadromus collaris,
Brachymeria excarinata, 449
Brassica oleracea, 449
Cotesia plutellae, 449
Macromalon orientale, 449
diamondback moth,
Bacillus thuringiensis, 2188
Plutella xylostella, 2188
PR-1A promoter, 2188
resistance management, 2188
diapause, 464, 1917
Bacillus thuringiensis, 464
Osmia, 1917
pollinator, 1917
Sesamia nonagrioides, 464
solitary bees, 1917
transgenic corn, 464
diatomaceous earth,
barley, 1404
insecticidal effect, 1404
rice weevil, 1404
wheat, 1404
Diatraea saccharalis,
insecticide resistance, 955
tebufenozide, 955
dieldrin,
fipronil, 1305
German cockroach, 1305
insecticide resistance, 1305
4-(3′;4′-dimethoxyphenyl)buta-1; 3-diene,
Callosobruchus maculatus, 1163
formulations, 1163
ovicidal activity, 1163
Zingiber purpureum, 1163
dinotefuran,
clothianidin, 2292
imidacloprid, 2292
LC_{50}, 2292
thiamethoxam, 2292
Diptera,
Anastrepha, 1930
mating competitiveness, 1930
pupal weight, 1930
Tephritidae, 1930
direct seeding,
conservation tillage, 805
host plant resistance, 805
Mayetiola destructor, 805
Triticum aestivum, 805
disease control,
alfalfa leafcutting bee, 1094
Ascosphaera aggregata, 1094
chalkbrood, 1094
Megachile rotundata, 1094
disease incidence,
Chaetocnema pulicaria, 673
insect vector, 673
Stewart's wilt, 673
dispersal, 1294, 1531, 1580, 1648, 1751, 1763
Bacillus thuringiensis, 1751
biosecurity, 1531
corn, 1580
Diabrotica virgifera virgifera, 1294
economic threshold, 1763
genetically modified crops, 1751
IPM, 1763
kernel red streak, 1580
leaf rolling, 1648
Lymantriidae, 1531
modeling, 1763
movement, 1294
neonate, 1648
obliquebanded leafroller, 1648
particle spray, 1648
refuge, 1751
resistance management, 1294, 1751
sterile insect, 1531
Teia anartoides, 1531
treatment threshold, 1763
wheat curl mite, 1580
disruptant,
antiaggregation pheromone, 2041
nonhost volatiles, 2041
pest management, 2041
Pinus ponderosa, 2041

distribution, 1774, 2028
alfalfa weevil, 2028
Formicidae, 1774
genetic strains, 2028
H. brunneipennis, 2028
Hypera postica, 2028
invasive species, 1774
Myrmica rubra, 1774
Diuraphis noxia, 389, 588, 1032, 1698
categories of resistance, 588
host plant resistance, 389, 1698
plant resistance, 1032
reproduction, 1032
survival, 1032
Triticum aestivum, 1032
wheat, 389, 588, 1698
DNA fingerprinting,
Formosan subterranean termite, 916
Reticulitermes flavipes, 916
succession ecology, 916
termite baiting, 916
dogwood borer,
apple, 2121
rootstocks, 2121
Sesiidae, 2121
Synanthedon scitula, 2121
dormant grape cuttings,
hot-water treatments, 1109
nursery controls, 1109
Planococcus ficus, 1109
dose response,
alate, 1451
field study, 1451
Formosan, 1451
pathogenicity, 1451
dried beans,
controlled atmospheres, 1070
methyl bromide alternative, 1070
pest management, 1070
vacuum, 1070
drone removal,
Apis mellifera, 645
drone trap, 645
IPM, 645
Varroa destructor, 645
drone trap,
Apis mellifera, 645
drone removal, 645
IPM, 645
Varroa destructor, 645
dwellings,
Coptotermes formosanus, 2160
imidacloprid, 2160
termite, 2160

E

E. tristigmus,
Acrosternum hilare, 143
Euschistus servus, 143
insect traps, 143
monitoring, 143
earth mite,
competition, 307
Halotydeus, 307
interactions, 307
Penthaleus, 307
eastern subterranean termite,
Coptotermes formosanus, 471
Formosan subterranean termite, 471
Reticulitermes flavipes, 471
two-dimensional foraging arena, 471
economic injury level,
action threshold, 1213
insect pest management, 1213
Listronotus oregonensis, 1213
Petroselinum crispum, 1213
economic threshold,
dispersal, 1763
IPM, 1763
modeling, 1763
treatment threshold, 1763
economic value,
cocoon, 1717
deterministic model, 1717
silkworm, 1717
economics, 95, 103
Bt corn, 103
chemical control, 95
European corn borer, 103
Ostrinia nubilalis, 103
Rhopalosiphum padi, 95
Schizaphis graminum, 95
verification, 103
ecosystem service,
Annonaceae, 1193
beneficial insect, 1193
custard apple, 1193
Nitidulidae, 1193
effectiveness,
evaporation rate, 267
formic acid, 267
residues, 267
Varroa destructor, 267
efficacy, 1007, 1382
Bacillus thuringiensis, 1007
cotton, 1382
Cry1Ac, 1007, 1382
Helicoverpa armigera, 1007, 1382
mRNA, 1007, 1382
efficiency,
Bradysia spp., 1399
$MgSO_4$ flotation, 1399
quantitative sampling, 1399
soilless growing media, 1399
Elateridae,
Agriotes obscurus, 1999
cultural control, 1999
lethal trap crops, 1999
wireworms, 1999
electrical penetration graph,
Frankliniella fusca, 1622
Frankliniella occidentalis, 1622
imidacloprid, 1622
TSWV, 1622
ELISA,
grapevine, 182
Homalodisca coagulata, 182
imidacloprid, 182
xylem, 182
Empoasca fabae, 757, 1704
glandular trichomes, 1704
insect–plant interactions, 1704
migration, 757
overwintering range, 757
plant resistance, 1704
Solanum berthaultii, 1704
spring development, 757
survival, 757
emulsified wax,
competitive attraction, 1267
false-plume following, 1267
mating disruption, 1267
δ-endotoxins,
Bacillus thuringiensis, 1469
Hemiptera, 1469
Lygus hesperus, 1469
entomopathogen,
cabbage maggot, 1856
Delia radicum, 1856
Metarhizium anisopliae, 1856
entomopathogenic fungi,
Delia antiqua, 1848
onion maggot, 1848
entomopathogenic nematodes, 1486, 1863
bark scorpions, 1486
Centruroides exilicauda, 1486
Cydia pomonella, 1863
formulation, 1863
fruit bins, 1863
Heterorhabditis, 1486
Steinernema, 1486, 1863
epidemiology,
BYMV pathotypes, 1816
hypersusceptibility, 1816
Trifolium spp., 1816
vector, 1816
equids,
COI, 2235
Gasterophilus, 2235
identification, 2235
phylogenesis, 2235
eradication,
Anoplophora glabripennis, 47
landfills, 47
pathway analysis, 47
wood waste, 47
essential oils,
LD_{50}, 651
repellent effect, 651

Varroa destructor, 651
ethanol,
fertilization, 2049
invasive species, 2049
Populus deltoides, 2049
Xyleborini, 2049
eucalyptus,
damage, 1187
invasive species, 1187
Uraba lugens pheromone, 1187
Eulecanium cerasorum,
Calico scale, 1202
scale insect, 1202
European corn borer, 103, 1333
Bt corn, 103
Bt resistance management, 1333
Bt toxicity, 1333
cross-resistance, 1333
Cry protoxins, 1333
economics, 103
Ostrinia nubilalis, 103
verification, 103
Euschistus servus,
Acrosternum hilare, 143
E. tristigmus, 143
insect traps, 143
monitoring, 143
evaporation rate,
effectiveness, 267
formic acid, 267
residues, 267
Varroa destructor, 267
evolution,
crossover frequency, 171
organophosphate, 171
pyrethroid, 171
sex determination, 171
exotic lure,
Ips, 2058
pheromone, 2058
quarantine, 2058

F

fall armyworm,
Leucania phragmatidicola, 66
monitoring, 66
pheromone, 66
Spodoptera frugiperda, 66
false-plume following,
competitive attraction, 1267
emulsified wax, 1267
mating disruption, 1267
farmer participatory research,
coffee pest, 821
sampling, 821
Taylor's Power Law, 821
fast acting,
Coptotermes formosanus, 911
Reticulitermes flavipes, 911
slow acting, 911
fecundity, 732, 1937
Bradysia spp., 1937
flotation/extraction method, 1937
inherited sterility, 732
irradiation, 732
longevity, 732
lymantriid, 732
oviposition, 1937
soilless growing media, 1937
feeding, 1572, 1654
Anthonomus grandis grandis, 1572
attraction, 1654
boll weevil, 1572
GF-120 NF Naturalyte Fruit Fly Bait, 1654
oviposition, 1572
Rhagoletis indifferens, 1654
spinosad concentrations, 1654
square size, 1572
feeding behavior,
aggregation, 502
Coptotermes formosanus, 502
feeding stimulant, 502
tunneling behavior, 502
feeding stimulant, 502, 1150
aggregation, 502
bioassay, 1150
Coptotermes formosanus, 502
Diabrotica, 1150
feeding behavior, 502
insect behavior, 1150
rootworm larvae, 1150
tunneling behavior, 502
fenitrothion,
Alphitobius diaperinus, 938
broiler house, 938
insecticide resistance testing, 938
fenvalerate,
cytochrome P450 monooxygenase, 943
Helicoverpa armigera, 943
insecticide resistance, 943
O-demethylation, 943
fertilization,
ethanol, 2049
invasive species, 2049
Populus deltoides, 2049
Xyleborini, 2049
field cages,
Cryptophlebia leucotreta, 1924
insect competitiveness, 1924
release ratios, 1924
field study,
alate, 1451
dose response, 1451
Formosan, 1451
pathogenicity, 1451
films,
behavior, 1221
Trialeurodes vaporariorum, 1221
UV-absorbing, 1221
fipronil, 906, 1305, 1551, 2143
areawide population management, 2143
Bactrocera cucurbitae, 1551
Bactrocera dorsalis, 1551
Coptotermes formosanus, 906
dieldrin, 1305
German cockroach, 1305
insecticide resistance, 1305
male annihilation, 1551
noviflumuron, 2143
Reticulitermes flavipes, 906
suppression, 1551
thiamethoxam, 906, 2143
fitness,
Bacillus thuringiensis, 1311
Helicoverpa armigera, 1311
resistance, 1311
transgenic cotton, 1311
fitness costs,
Bacillus thuringiensis, 947
Bt crops, 947
cotton cultivars, 947
resistance management, 947
flagging,
imidacloprid, 2133
Magicicada, 2133
oviposition, 2133
scarring, 2133
floriculture,
bedding plants, 1040
binomial sampling, 1040
spider mites, 1040
flotation/extraction method,
Bradysia spp., 1937
fecundity, 1937
oviposition, 1937
soilless growing media, 1937
flour,
insect fragments, 2282
near-infrared spectroscopy, 2282
Rhyzopertha dominica, 2282
stored products, 2282
fluorescence,
cellulase, 41
in vivo tests, 41
inhibitors, 41
β-glucosidase, 41
foliar application,
chrysanthemum, 1480
Frankliniella occidentalis, 1480
Steinernema feltiae, 1480
foraging, 493, 933
bait, 493
competition, 493
Linepithema humile, 493

Monomorium minimum, 493
Reticulitermes flavipes, 933
Reticulitermes tibialis, 933
Reticulitermes virginicus, 933
soil moisture, 933
foraging behavior,
alfalfa pollination, 1077
Ascosphaera, 1077
immature mortality, 1077
Megachile rotundata, 1077
formic acid,
effectiveness, 267
evaporation rate, 267
residues, 267
Varroa destructor, 267
Formicidae,
distribution, 1774
invasive species, 1774
Myrmica rubra, 1774
Formosan,
alate, 1451
dose response, 1451
field study, 1451
pathogenicity, 1451
Formosan subterranean termite, 471, 916
Coptotermes formosanus, 471
DNA fingerprinting, 916
eastern subterranean termite, 471
Reticulitermes flavipes, 471, 916
succession ecology, 916
termite baiting, 916
two-dimensional foraging arena, 471
formulation, 1163, 1863
4-(3′;4′-dimethoxyphenyl) buta-1;3-diene, 1163
Callosobruchus maculatus, 1163
Cydia pomonella, 1863
entomopathogenic nematodes, 1863
fruit bins, 1863
ovicidal activity, 1163
Steinernema, 1863
Zingiber purpureum, 1163
foulbrood,
migratory pollination, 1087
Paenibacillus larvae, 1087
Frankliniella fusca, 129, 1435, 1622
electrical penetration graph, 1622
Frankliniella occidentalis, 1622
imidacloprid, 1622
pest management, 129
planting date, 1435
tobacco thrips, 129, 1435
Tomato spotted wilt virus, 129, 1435
tospovirus, 129
TSWV, 1435, 1622
Frankliniella occidentalis, 1480, 1622
chrysanthemum, 1480
electrical penetration graph, 1622
foliar application, 1480
Frankliniella fusca, 1622
imidacloprid, 1622
Steinernema feltiae, 1480
TSWV, 1622
fruit bins,
Cydia pomonella, 1863
entomopathogenic nematodes, 1863
formulation, 1863
Steinernema, 1863
fruit fly,
AFF lure, 1517
Anastrepha ludens, 1517
attractants, 1517
BioLure, 1517
fumigant toxicity,
Agriotes obscurus, 1560
contact toxicity, 1560
insecticidal activity, 1560
monoterpenoids, 1560
fumigation, 289, 1911
Anoplophora, 1911
mealybugs, 289
methyl bromide, 1911
ozone, 289
Populus, 1911
quarantine, 1911
quarantine treatments, 289
thrips, 289
functional response,
biological control, 1524
Coenosia attenuata, 1524
temperature, 1524

G

Galleria mellonella,
malondialdehyde, 358
nutrition, 358
organophosphorus insecticides, 358
synthetic diet, 358
Gasterophilus,
COI, 2235
equids, 2235
identification, 2235
phylogenesis, 2235
GC-EAD,
pheromone, 2067
repellent, 2067
Scolytinae, 2067
semiochemical, 2067
gene,
Aphis gossypii, 1325
carboxylesterase, 1325
insecticide resistance, 1325
polymorphism, 1325
genetic linkage map,
greenbug, 595
quantitative trait loci, 595
sorghum, 595
tolerance, 595
genetic resistance,
maize disease, 1374
planthopper vector, 1374
genetic sexing,
codling moth, 248
insect transgenesis, 248
Lepidoptera, 248
sterile insect technique, 248
genetic strains,
alfalfa weevil, 2028
distribution, 2028
H. brunneipennis, 2028
Hypera postica, 2028
genetically modified crops, 635, 1751
Bacillus thuringiensis, 635, 1751
dispersal, 1751
genetics, 635
Pectinophora gossypiella, 635
refuge, 1751
resistance, 635
resistance management, 1751
genetics,
Bacillus thuringiensis, 635
genetically modified crops, 635
Pectinophora gossypiella, 635
resistance, 635
geographic information system,
corn rootworms, 121
Diabrotica spp., 121
geostatistics, 121
site-specific pest management, 121
geographic variability,
bioassay, 1320
Bt susceptibility, 1320
Diabrotica virgifera virgifera, 1320
Geoica,
ants, 891
Lasius neoniger, 891
root aphids, 891
turfgrass, 891
geostatistics, 121, 378
corn root injury, 378
corn rootworms, 121, 378
Diabrotica spp., 121, 378
geographic information system, 121
site-specific pest management, 121
spatial dispersion, 378
German cockroach, 899, 1275, 1305
Blattella germanica, 1275
chitin synthesis inhibitor, 899

dieldrin, 1305
fipronil, 1305
insecticide resistance, 1305
IPM, 1275
multi-family housing, 899
noviflumuron, 899
residual control, 899
school IPM, 1275
GF-120 NF Naturalyte Fruit Fly Bait,
attraction, 1654
feeding, 1654
Rhagoletis indifferens, 1654
spinosad concentrations, 1654
glandular trichomes,
Empoasca fabae, 1704
insect–plant interactions, 1704
plant resistance, 1704
Solanum berthaultii, 1704
glandular-haired alfalfa,
alfalfa weevil, 72
potato leafhopper, 72
resistant alfalfa, 72
glasshouse,
Cucumis sativus, 457
damage, 457
plant growth analysis, 457
Tetranychus urticae, 457
Glossocarya,
insect cell lines, 1259
Plectranthus, 1259
Tetranychus urticae, 1259
glossy collards,
Plutella xylostella, 836
tomato, 836
water stress, 836
yellow rocket, 836
β-glucosidase,
cellulase, 41
fluorescence, 41
in vivo tests, 41
inhibitors, 41
glutathione *S*-transferase,
insecticide resistance, 1341
Musca domestica, 1341
glyphosate,
Diabrotica virgifera virgifera, 1679
grassy weeds, 1679
MON863, 1679
grain,
NeemAzal, 1733
Rhyzopertha dominica, 1733
Sitophilus oryzae, 1733
Tribolium confusum, 1733
grain probe trap,
automated monitoring, 1723
detection, 1723
infrared sensors, 1723
stored-product insects, 1723
grain trier,
spatiotemporal distribution, 1058
stored wheat, 1058
stored-product insects, 1058
stored-product mites, 1058
grapefruit,
lures, 1641
McPhail, 1641
Multi-Lure, 1641
sterile release, 1641
grapevine,
ELISA, 182
Homalodisca coagulata, 182
imidacloprid, 182
xylem, 182
grassy weeds,
Diabrotica virgifera virgifera, 1679
glyphosate, 1679
MON863, 1679
green peach aphid, 1101, 2095
imidacloprid, 2095
Myzus persicae, 1101, 2095
neonicotinoids, 2095
preference, 1101
reproduction, 1101
Solanum sarrachoides, 1101
Tabasco pepper, 2095
green stink bug,
brown stink bug, 177
insecticides, 177
southern green stink bug, 177
greenbug, 595, 1024
genetic linkage map, 595
induced resistance, 1024
near isogenic line, 1024
optimal defense theory, 1024
quantitative trait loci, 595
sorghum, 595
tolerance, 595
wheat, 1024
greenhouse pollination,
Lycopersicon, 260
protected cultivation, 260
stingless bee, 260
ground cover,
Amblyseius fallacis, 862
Tetranychus urticae, 862
Typhlodromus pyri, 862
weather, 862

H

H. brunneipennis,
alfalfa weevil, 2028
distribution, 2028
genetic strains, 2028
Hypera postica, 2028
Halotydeus,
competition, 307
earth mite, 307
interactions, 307
Penthaleus, 307
Harmonia axyridis,
conservation biological control, 780
soybean, 780
sweet corn, 780
topical assay, 780
harvest index,
barley, 1969
sink-limitation, 1969
subarctic, 1969
yield, 1969
hay,
larval habitats, 2307
round bales, 2307
stable flies, 2307
heat treatment, 626, 1905
Anastrepha ludens, 1905
commodity treatment, 1905
methyl bromide alternative, 626
phytosanitary, 1905
quarantine, 1905
reproductive impairment, 626
Tribolium castaneum, 626
Helicoverpa, 210, 568
chickpea, 210
detached leaf assay, 568
resistance, 210
resistance screening, 568
transgenics, 568
Helicoverpa armigera, 195, 943, 1007, 1311, 1382, 1839, 2246
Bacillus thuringiensis, 1007, 1311
baculovirus, 1839
biopesticide, 1839
Bt transgenic cotton, 195
chickpea, 2246
China, 195
Cicer reticulatum, 2246
cotton, 1382
Cry1Ac, 1007, 1382
cytochrome P450 monooxygenase, 943
efficacy, 1007, 1382
fenvalerate, 943
fitness, 1311
Helicoverpa armigera stunt virus, 1839
host plant resistance, 2246
insecticidal protein expression, 195
insecticide resistance, 943
mRNA, 1007, 1382
O-demethylation, 943
population dynamics, 195
resistance, 1311
tetravirus, 1839
transgenic cotton, 1311
wild relatives of chickpea, 2246

Helicoverpa armigera stunt virus,
baculovirus, 1839
biopesticide, 1839
Helicoverpa armigera, 1839
tetravirus, 1839
Helicoverpa zea,
Carpophilus lugubris, 856
insect predators, 856
Ostrinia nubilalis, 856
Heliothis virescens,
Bollgard, 2203
cotton, 2203
insecticide resistance, 2203
pyrethroids, 2203
Hemiptera,
Bacillus thuringiensis, 1469
Lygus hesperus, 1469
δ-endotoxins, 1469
Heterorhabditis, 1486, 1884
bark scorpions, 1486
black vine weevil, 1884
Centruroides exilicauda, 1486
entomopathogenic nematodes, 1486
host cadavers, 1884
ornamentals, 1884
Steinernema, 1486, 1884
high dose,
Bacillus thuringiensis, 578
Lepidoptera, 578
resistance management, 578
transgenic soybean, 578
Homalodisca coagulata,
ELISA, 182
grapevine, 182
imidacloprid, 182
xylem, 182
honey bee,
Aethina tumida, 1791
pest management, 1791
upper hive entrance, 1791
horticultural mineral oil,
IPM, 1630
pheromone mating disruption, 1630
horticultural oil,
Chionaspis pinifoliae, 1603
Christmas trees, 1603
IPM, 1603
Pinus sylvestris, 1603
host cadavers,
black vine weevil, 1884
Heterorhabditis, 1884
ornamentals, 1884
Steinernema, 1884
host plant aphid resistance,
Lycopersicon hirsutum f. *glabratum*, 988
Lycopersicon pennellii, 988
Macrosiphum euphorbiae, 988
Myzus persicae, 988
host plant preference,
infestation, 1018
pest densities, 1018
sugarcane tingid, 1018
host plant resistance, 389, 557, 805, 1698, 2246
Bemisia tabaci, 557
chickpea, 2246
Cicer reticulatum, 2246
conservation tillage, 805
Cucumis melo, 557
direct seeding, 805
Diuraphis noxia, 389, 1698
Helicoverpa armigera, 2246
Mayetiola destructor, 805
population dynamics, 557
Triticum aesticum, 805
Va gene, 557
wheat, 389, 1698
wild relatives of chickpea, 2246
host resistance,
Aphis gossypii, 996
Colocasia esculenta, 996
taro, 996
Xanthosoma sagittifolium, 996
hot water immersion,
mealybug, 284
quarantine, 284
hot-water treatments,
dormant grape cuttings, 1109
nursery controls, 1109
Planococcus ficus, 1109
hybrid poplar,
antibiosis, 2254
Cryptorhynchus lapathi, 2254
Populus maximowiczii, 2254
resistance, 2254
Hypera postica,
alfalfa weevil, 2028
distribution, 2028
genetic strains, 2028
H. brunneipennis, 2028
hypersusceptibility,
BYMV pathotypes, 1816
epidemiology, 1816
Trifolium spp., 1816
vector, 1816

I

identification,
COI, 2235
equids, 2235
Gasterophilus, 2235
phylogenesis, 2235
imidacloprid, 182, 188, 1144, 1622, 2095, 2133, 2160, 2292
aphids, 188
Aphis pomi, 188
Aphis spiraecola, 188
buprofezin, 1144
clothianidin, 2292
Coptotermes formosanus, 2160
dinotefuran, 2292
dwellings, 2160
electrical penetration graph, 1622
ELISA, 182
flagging, 2133
Frankliniella fusca, 1622
Frankliniella occidentalis, 1622
grapevine, 182
green peach aphid, 2095
Homalodisca coagulata, 182
JHIII, 1144
LC_{50}, 2292
Magicicada, 2133
Myzus persicae, 2095
neonicotinoids, 2095
oviposition, 2133
scarring, 2133
stimulation fecundity, 1144
Tabasco pepper, 2095
termite, 2160
thiamethoxam, 2292
tolerance, 188
toxicity, 188
Tryporyza incertulas, 1144
TSWV, 1622
xylem, 182
immature mortality,
alfalfa pollination, 1077
Ascosphaera, 1077
foraging behavior, 1077
Megachile rotundata, 1077
in vivo tests,
cellulase, 41
fluorescence, 41
inhibitors, 41
β-glucosidase, 41
Indianmeal moth,
monitoring, 326
spatial analysis, 326
stored-product insects, 326
trapping, 326
indirect selection,
Ostrinia nubilalis, 982
phase transition, 982
Sesamia nonagrioides, 982
Zea mays, 982
induced resistance, 1024, 2266
Bemisia tabaci, 2266
Bion, 2266
BTH, 2266
greenbug, 1024
near isogenic line, 1024
optimal defense theory, 1024
sweetpotato whitefly, 2266
wheat, 1024
infestation,
host plant preference, 1018
pest densities, 1018
sugarcane tingid, 1018

infrared sensors,
automated monitoring, 1723
detection, 1723
grain probe trap, 1723
stored-product insects, 1723
inherited sterility,
fecundity, 732
irradiation, 732
longevity, 732
lymantriid, 732
inhibitors,
cellulase, 41
fluorescence, 41
in vivo tests, 41
β-glucosidase, 41
inoculation dosage,
larval stage, 1876
Neodiprion abietis, 1876
nucleopolyhedrovirus, 1876
virus production, 1876
insect behavior, 88, 1150
bioassay, 1150
Bollgard, 88
Bollgard II, 88
Diabrotica, 1150
feeding stimulants, 1150
integrated pest management, 88
rootworm larvae, 1150
insect cell lines,
Glossocarya, 1259
Plectranthus, 1259
Tetranychus urticae, 1259
insect competitiveness,
Cryptophlebia leucotreta, 1924
field cages, 1924
release ratios, 1924
insect control, 432, 2006
aphid density, 2006
Aphis glycines, 2006
bait sprays, 432
behavior, 432
Rhagoletis mendax, 432
Rhagoletis pomonella, 432
insect fragments,
flour, 2282
near-infrared spectroscopy, 2282
Rhyzopertha dominica, 2282
stored products, 2282
insect growth regulator,
bioassay, 415
larvae, 415
methoxyfenozide, 415
tebufenozide, 415
insect pest management, 1213, 2181
action threshold, 1213
comparative toxicity, 2181
Diabrotica virgifera virgifera, 2181
economic injury level, 1213
insecticide susceptibility, 2181
Listronotus oregonensis, 1213
Petroselinum crispum, 1213
western corn rootworm, 2181
insect predators,
Carpophilus lugubris, 856
Helicoverpa zea, 856
Ostrinia nubilalis, 856
insect resistance management, 518, 534, 961
crop rotation, 518, 534
Diabrotica virgifera virgifera, 518, 534, 961
integrated pest management, 961
modeling, 961
simulation model, 518, 534
transgenic corn, 518, 534, 961
insect transgenesis,
codling moth, 248
genetic sexing, 248
Lepidoptera, 248
sterile insect technique, 248
insect traps,
Acrosternum hilare, 143
E. tristigmus, 143
Euschistus servus, 143
monitoring, 143
insect vector, 279, 673
aster yellows, 279
Chaetocnema pulicaria, 673
Circulifer tenellus, 279
disease incidence, 673
PCR, 279
potato purple top, 279
Stewart's wilt, 673
insecticidal activity,
Agriotes obscurus, 1560
contact toxicity, 1560
fumigant toxicity, 1560
monoterpenoids, 1560
insecticidal effect,
barley, 1404
diatomaceous earth, 1404
rice weevil, 1404
wheat, 1404
insecticidal protein expression,
Bt transgenic cotton, 195
China, 195
Helicoverpa armigera, 195
population dynamics, 195
insecticide, 35, 177, 694, 1977, 2089, 2195
biological control, 35
boll weevil, 1977
brown stink bug, 177
compatibility, 694
cotton, 1977
green stink bug, 177
Japanese beetle, 694
Linepithema humile, 2089
oviposition preference performance relationships, 2195
permethrin-impregnated plastic, 2089
Plutella xylostella, 2195
Popillia japonica, 694
proactive, 1977
pyrethroids, 2195
side effect, 35
Solenopsis invicta, 2089
southern green stink bug, 177
threshold, 1977
Tiphia vernalis, 694
Trissolcus grandis, 35
insecticide resistance, 943, 955, 1305, 1325, 1341, 2203
Aphis gossypii, 1325
Bollgard, 2203
carboxylesterase, 1325
cotton, 2203
cytochrome P450 monooxygenase, 943
Diatraea saccharalis, 955
dieldrin, 1305
fenvalerate, 943
fipronil, 1305
gene, 1325
German cockroach, 1305
glutathione S-transferase, 1341
Helicoverpa armigera, 943
Heliothis virescens, 2203
Musca domestica, 1341
O-demethylation, 943
polymorphism, 1325
pyrethroids, 2203
tebufenozide, 955
insecticide resistance testing,
Alphitobius diaperinus, 938
broiler house, 938
fenitrothion, 938
insecticide susceptibility,
comparative toxicity, 2181
Diabrotica virgifera virgifera, 2181
insect pest management, 2181
western corn rootworm, 2181
insect–plant interactions,
Empoasca fabae, 1704
glandular trichomes, 1704
plant resistance, 1704
Solanum berthaultii, 1704
instar determination,
apple, 875
Choristoneura rosaceana, 875
Pandemis pyrusana, 875
phenology, 875
integrated pest management, 88, 716, 725, 961, 1229, 1744
action thresholds, 1229
Alphitobius diaperinus, 1744
apples, 1229
Areawide management, 716

biological control, 725
Bollgard, 88
Bollgard II, 88
Colorado potato beetle, 716
crop rotation, 716
cultural control, 725
darkling beetle, 1744
Diabrotica virgifera virgifera, 961
insect behavior, 88
insect resistance management, 961
larval behavior, 725
litter beetle, 1744
modeling, 961
Platynota idaeusalis, 1229
poultry manure, 1744
predictive model, 1229
transgenic corn, 961
interactions,
competition, 307
earth mite, 307
Halotydeus, 307
Penthaleus, 307
intercropping,
Chilo partellus, 384
lablab, 384
maize, 384
inundative biological control,
apple, 1459
commercial formulation, 1459
Cydia pomonella granulovirus, 1459
persistence, 1459
invasive species, 1187, 1774, 2049
damage, 1187
distribution, 1774
ethanol, 2049
eucalyptus, 1187
fertilization, 2049
Formicidae, 1774
Myrmica rubra, 1774
Populus deltoides, 2049
Uraba lugens pheromone, 1187
Xyleborini, 2049
IPM, 645, 689, 1275, 1391, 1603, 1630, 1739, 1763
Alphitobius diaperinus, 1739
Apis mellifera, 645
Blattella germanica, 1275
Chionaspis pinifoliae, 1603
Christmas trees, 1603
contact insecticide, 1391
darkling beetle, 1739
dispersal, 1763
drone removal, 645
drone trap, 645
economic threshold, 1763
German cockroach, 1275
horticultural mineral oil, 1630
horticultural oil, 1603
litter beetle, 1739
modeling, 1763
mole crickets, 689
pesticide compatibility, 689
pheromone mating disruption, 1630
Pinus sylvestris, 1603
poultry manure, 1739
sampling, 1391
school IPM, 1275
stored-product insects, 1391
trapping, 1391
treatment threshold, 1763
turfgrass, 689
Varroa destructor, 645
Ipomoea batatas,
Acalymma vittatum, 159
Cucurbitaceae, 159
Diabrotica balteata, 159
Diabrotica undecimpunctata howardi, 159
Ips,
exotic lure, 2058
pheromone, 2058
quarantine, 2058
ipsdienol,
Acanthocinus obsoletus, 2033
ipsenol, 2033
Monochamus titillator, 2033
trap lure, 2033
ipsenol,
Acanthocinus obsoletus, 2033
ipsdienol, 2033
Monochamus titillator, 2033
trap lure, 2033
irradiation,
fecundity, 732
inherited sterility, 732
longevity, 732
lymantriid, 732
irradiation doses,
Anastrepha ludens, 1510
mating competitiveness, 1510
sterile insect technique, 1510
sterility induction, 1510
irrigation,
soil moisture, 154
strawberries, 154
temperature, 154
twospotted spider mite, 154
Isoptera,
breeding system, 1421
microsatellite genotyping, 1421
Rhinotermitidae, 1421
Italian honey bees,
Acarapis woodi, 1796
overwinter, 1796
Russian honey bees, 1796
tracheal mites, 1796
Ixodes scapularis,
deltamethrin, 976
nontarget effects, 976

J

Japanese beetle,
compatibility, 694
insecticides, 694
Popillia japonica, 694
Tiphia vernalis, 694
JHIII,
buprofezin, 1144
imidacloprid, 1144
stimulation fecundity, 1144
Tryporyza incertulas, 1144
juvenile hormone,
Apis mellifera, 274
behavioral development, 274
swarming, 274
juvenile hormone analogs,
pyriproxyfen, 2169
queen, 2169
S-methoprene, 2169

K

kaolin,
deterrent, 2079
physical barrier, 2079
repellent, 2079
whitewash, 2079
kernel red streak,
corn, 1580
dispersal, 1580
wheat curl mite, 1580

L

lablab,
Chilo partellus, 384
intercropping, 384
maize, 384
Lacanobia subjuncta,
degree-days, 2100
pest management, 2100
phenology model, 2100
Weibull distribution, 2100
landfills,
Anoplophora glabripennis, 47
eradication, 47
pathway analysis, 47
wood waste, 47
large-scale spraying,
Bacillus thuringiensis, 402
biological control, 402
cone insects, 402
spruce seed orchard, 402
larvae,
bioassay, 415
insect growth regulator, 415
methoxyfenozide, 415
tebufenozide, 415
larval behavior,
biological control, 725
cultural control, 725
integrated pest management, 725

larval habitats,
hay, 2307
round bales, 2307
stable flies, 2307
larval mortality,
Bacillus thuringiensis, 1880
biological control, 1880
Phyllocnistis citrella, 1880
larval movement,
Bacillus thuringiensis, 1126
Diabrotica virgifera virgifera, 1126
resistance management, 1126
transgenic, 1126
larval population structure,
corn leaf stage, 1594
corn seedling damage, 1594
degree-days, 1594
larval stage,
inoculation dosage, 1876
Neodiprion abietis, 1876
nucleopolyhedrovirus, 1876
virus production, 1876
larval susceptibility,
lethal time–mortality, 1870
Neodiprion abietis, 1870
nucleopolyhedrovirus, 1870
virus effects on survivors, 1870
Lasius neoniger,
ants, 891
Geoica, 891
root aphids, 891
turfgrass, 891
LC_{50},
clothianidin, 2292
dinotefuran, 2292
imidacloprid, 2292
thiamethoxam, 2292
LD_{50},
essential oils, 651
repellent effect, 651
Varroa destructor, 651
leaf rolling,
dispersal, 1648
neonate, 1648
obliquebanded leafroller, 1648
particle spray, 1648
leafhopper,
Pierce's disease, 1664
sharpshooter, 1664
vector, 1664
Xylella fastidiosa, 1664
leafroller,
pear psylla, 423
prohexadione-calcium, 423
spirea aphid, 423
Lepidoptera, 248, 578, 1566
Bacillus thuringiensis, 578
Biotin, 1566
Bt, 1566
codling moth, 248
genetic sexing, 248
high dose, 578
insect transgenesis, 248
resistance management, 578
sterile insect technique, 248
synergism, 1566
transgenic soybean, 578
Leptinotarsa decemlineata, 1685, 2176
bioassay method, 2176
novaluron, 1685
persistence, 1685
phosalone, 2176
resistance, 1685
susceptibility, 2176
synergism, 1685
lethal time–mortality,
larval susceptibility, 1870
Neodiprion abietis, 1870
nucleopolyhedrovirus, 1870
virus effects on survivors, 1870
lethal trap crops,
Agriotes obscurus, 1999
cultural control, 1999
Elateridae, 1999
wireworms, 1999
lettuce,
aphid, 1899
postharvest, 1899
quarantine treatment, 1899
ultralow oxygen, 1899
Leucania phragmatidicola,
fall armyworm, 66
monitoring, 66
pheromone, 66
Spodoptera frugiperda, 66
life table,
Aphis glycines, 113
potassium deficiency, 113
soybean, 113
Linepithema humile, 493, 2089
bait, 493
competition, 493
foraging, 493
insecticide, 2089
Monomorium minimum, 493
permethrin-impregnated plastic, 2089
Solenopsis invicta, 2089
linkage,
Bacillus thuringiensis, 1357
resistance, 1357
tobacco budworm, 1357
liquid formulation,
Bacillus thuringiensis, 1890
biopesticide, 1890
soya, 1890
starch industry wastewater, 1890
liquid termiticides,
barrier treatment, 509
Coptotermes formosanus, 509
penetration, 509
Reticulitermes flavipes, 509
Liriomyza,
abamectin, 1831
cyromazine, 1831
mancozeb, 1831
parasitoid, 1831
Listronotus oregonensis,
action threshold, 1213
economic injury level, 1213
insect pest management, 1213
Petroselinum crispum, 1213
litter beetle, 229, 1739, 1744
Alphitobius diaperinus, 229, 1739, 1744
darkling beetle, 229, 1739, 1744
integrated pest management, 1744
IPM, 1739
poultry litter, 229
poultry manure, 1739, 1744
poultry pest management, 229
Lobesia botrana,
mating disruption, 135
pheromone, 135
vineyards, 135
longevity,
fecundity, 732
inherited sterility, 732
irradiation, 732
lymantriid, 732
low temperatures,
cold hardiness, 618
minimum exposure, 618
Plodia interpunctella, 618
supercooling point, 618
lucerne,
Apiformes, 1785
Apoidea, 1785
Medicago, 1785
Megachilidae, 1785
lure, 664, 1139, 1641
attractant, 1139
ceralure B1, 1139
Ceratitis capitata, 1139
grapefruit, 1641
McPhail, 1641
Multi-Lure, 1641
paper wasps, 664
social wasps, 664
sterile release, 1641
trimedlure, 1139
vespids, 664
yellowjackets, 664
lure and kill, 317, 334
attract and kill, 317, 334
attracticide, 317
mating disruption, 317, 334
orchard pest management, 334
pheromone, 317, 334

Lycopersicon, 260, 1710
antixenosis, 1710
greenhouse pollination, 260
plant breeding, 1710
protected cultivation, 260
sesquiterpenoid, 1710
stingless bee, 260
trichome, 1710
Lycopersicon hirsutum f. *glabratum*,
host plant aphid resistance, 988
Lycopersicon pennellii, 988
Macrosiphum euphorbiae, 988
Myzus persicae, 988
Lycopersicon pennellii,
host plant aphid resistance, 988
Lycopersicon hirsutum f. *glabratum*, 988
Macrosiphum euphorbiae, 988
Myzus persicae, 988
Lycoriella mali,
Agaricus, 342
development, 342
Pleurotus, 342
shiitake, 342
Lygus hesperus,
Bacillus thuringiensis, 1469
Hemiptera, 1469
δ-endotoxins, 1469
lymantriid,
fecundity, 732
inherited sterility, 732
irradiation, 732
longevity, 732
Lymantriidae,
biosecurity, 1531
dispersal, 1531
sterile insect, 1531
Teia anartoides, 1531
Lysiphlebus testaceipes,
parasitoid eggs, 217
PCR, 217
Schizaphis graminum, 217

M

Macromalon orientale,
Brachymeria excarinata, 449
Brassica oleracea, 449
Cotesia plutellae, 449
Diadromus collaris, 449
Macrosiphum euphorbiae,
host plant aphid resistance, 988
Lycopersicon hirsutum f. *glabratum*, 988
Lycopersicon pennellii, 988
Myzus persicae, 988
Magicicada,
flagging, 2133
imidacloprid, 2133
oviposition, 2133
scarring, 2133
maize, 237, 384, 1694
Bt, 237
Chilo partellus, 384
Diabrotica, 237
intercropping, 384
lablab, 384
Ostrinia nubilalis, 237
popcorn, 1694
resistance, 1694
Sesamia nonagrioides, 1694
survey, 237
maize disease,
genetic resistance, 1374
planthopper vector, 1374
male annihilation,
Bactrocera cucurbitae, 1551
Bactrocera dorsalis, 1551
fipronil, 1551
suppression, 1551
malondialdehyde,
Galleria mellonella, 358
nutrition, 358
organophosphorus insecticides, 358
synthetic diet, 358
management,
Barbarea vulgaris, 884
Plutella xylostella, 884
trap crop, 884
mancozeb,
abamectin, 1831
cyromazine, 1831
Liriomyza, 1831
parasitoid, 1831
mark-release-recapture,
melon fly, 1539
wide area control, 1539
mass rearing,
Cochliomyia hominivorax, 2301
quality control, 2301
sterile insect technique, 2301
transgenic insect, 2301
mating competitiveness, 1510, 1930
Anastrepha, 1930
Anastrepha ludens, 1510
Diptera, 1930
irradiation doses, 1510
pupal weight, 1930
sterile insect technique, 1510
sterility induction, 1510
Tephritidae, 1930
mating disruption, 135, 317, 334, 1248, 1267
apple, 1248
attract and kill, 317, 334
attracticide, 317
competitive attraction, 1267
emulsified wax, 1267
false-plume following, 1267
Lobesia botrana, 135
lure and kill, 317, 334
orchard pest management, 334
pheromone, 135, 317, 334
pheromones, 1248
vineyards, 135
Mayetiola destructor,
conservation tillage, 805
direct seeding, 805
host plant resistance, 805
Triticum aestivum, 805
McPhail,
grapefruit, 1641
lures, 1641
Multi-Lure, 1641
sterile release, 1641
mealybug, 284, 289, 772
fumigation, 289
hot water immersion, 284
monoterpenes, 772
natural insecticides, 772
ozone, 289
quarantine, 284
quarantine treatments, 289
scales, 772
surfactants, 772
thrips, 289
Medicago,
Apiformes, 1785
Apoidea, 1785
lucerne, 1785
Megachilidae, 1785
Mediterranean fruit fly,
methyl bromide, 1116
oriental fruit fly, 1116
quarantine, 1116
Megachile rotundata, 1077, 1094
alfalfa leafcutting bee, 1094
alfalfa pollination, 1077
Ascosphaera, 1077
Ascosphaera aggregata, 1094
chalkbrood, 1094
disease control, 1094
foraging behavior, 1077
immature mortality, 1077
Megachilidae,
Apiformes, 1785
Apoidea, 1785
lucerne, 1785
Medicago, 1785
melon fly,
mark-release-recapture, 1539
wide area control, 1539
Metarhizium anisopliae,
cabbage maggot, 1856
Delia radicum, 1856
entomopathogen, 1856
methoxyfenozide, 415, 765
bioassay, 415
insect growth regulator, 415
larvae, 415
oriental fruit moth, 765

sublethal effects, 765
tebufenozide, 415
methyl bromide, 1116, 1911
Anoplophora, 1911
fumigation, 1911
Mediterranean fruit fly, 1116
oriental fruit fly, 1116
Populus, 1911
quarantine, 1116, 1911
methyl bromide alternative, 626, 1070
controlled atmospheres, 1070
dried beans, 1070
heat treatment, 626
pest management, 1070
reproductive impairment, 626
Tribolium castaneum, 626
vacuum, 1070
$MgSO_4$ flotation,
Bradysia spp., 1399
efficiency, 1399
quantitative sampling, 1399
soilless growing media, 1399
microorganisms,
Adh strains, 1943
antimicrobial, 1943
Bactrocera oleae, 1943
volatile compounds, 1943
microsatellite,
molecular biology, 2210
pest management, 2210
resistance management, 2210
microsatellite genotyping,
breeding system, 1421
Isoptera, 1421
Rhinotermitidae, 1421
migration,
Empoasca fabae, 757
overwintering range, 757
spring development, 757
survival, 757
migratory pollination,
foulbrood, 1087
Paenibacillus larvae, 1087
mineral oil,
Beauveria bassiana, 683
botanical insecticides, 683
Silwet L-77, 683
Tribolium castaneum, 683
minimum exposure,
cold hardiness, 618
low temperatures, 618
Plodia interpunctella, 618
supercooling point, 618
mitochondrial COI,
pome fruit, 299
quantitative PCR, 299
quarantine pests, 299
modeling, 961, 1157, 1763
Diabrotica virgifera virgifera, 961
dispersal, 1763
economic threshold, 1763
insect resistance management, 961
integrated pest management, 961
IPM, 1763
regression, 1157
soybean aphid, 1157
transgenic corn, 961
treatment threshold, 1763
mole crickets,
IPM, 689
pesticide compatibility, 689
turfgrass, 689
molecular biology,
microsatellite, 2210
pest management, 2210
resistance management, 2210
MON863,
Diabrotica virgifera virgifera, 1679
glyphosate, 1679
grassy weeds, 1679
monitoring, 66, 143, 326, 1499
(Z)-7-tetradecenal, 1499
Acrosternum hilare, 143
E. tristigmus, 143
Euschistus servus, 143
fall armyworm, 66
Indianmeal moth, 326
insect traps, 143
Leucania phragmatidicola, 66
pheromone, 66
Prays oleae, 1499
spatial analysis, 326
Spodoptera frugiperda, 66
stored-product insects, 326
trapping, 326
Monochamus titillator,
Acanthocinus obsoletus, 2033
ipsdienol, 2033
ipsenol, 2033
trap lure, 2033
Monomorium minimum,
bait, 493
competition, 493
foraging, 493
Linepithema humile, 493
Monomorium pharaonis,
Pharaoh ant, 485
repellency, 485
residual insecticide, 485
monoterpenes,
mealybugs, 772
natural insecticides, 772
scales, 772
surfactants, 772
monoterpenoids,
Agriotes obscurus, 1560
contact toxicity, 1560
fumigant toxicity, 1560
insecticidal activity, 1560
movement, 1294, 1413
Diabrotica virgifera virgifera, 1294
dispersal, 1294
redistribution, 1413
resistance management, 1294
stored grain, 1413
temperature gradient, 1413
Tribolium castaneum, 1413
mRNA, 1007, 1382
Bacillus thuringiensis, 1007
cotton, 1382
Cry1Ac, 1007, 1382
efficacy, 1007, 1382
Helicoverpa armigera, 1007, 1382
multi-family housing,
chitin synthesis inhibitor, 899
German cockroach, 899
noviflumuron, 899
residual control, 899
Multi-Lure,
grapefruit, 1641
lures, 1641
McPhail, 1641
sterile release, 1641
multilocus,
pest control, 18
segregation distortion, 18
sterile male, 18
mungbean,
bruchid resistance, 1369
Callosobruchus maculatus, 1369
VrD1, 1369
Musca domestica,
glutathione S-transferase, 1341
insecticide resistance, 1341
Myrmica rubra,
distribution, 1774
Formicidae, 1774
invasive species, 1774
Myzus persicae, 988, 1101, 2095
green peach aphid, 1101, 2095
host plant aphid resistance, 988
imidacloprid, 2095
Lycopersicon hirsutum f. *glabratum*, 988
Lycopersicon pennellii, 988
Macrosiphum euphorbiae, 988
neonicotinoids, 2095
preference, 1101
reproduction, 1101
Solanum sarrachoides, 1101
Tabasco pepper, 2095

N

natural insecticides,
mealybugs, 772
monoterpenes, 772
scales, 772
surfactants, 772

near isogenic line,
greenbug, 1024
induced resistance, 1024
optimal defense theory, 1024
wheat, 1024
near-infrared spectroscopy,
flour, 2282
insect fragments, 2282
Rhyzopertha dominica, 2282
stored products, 2282
neem,
Ceratothripoides claratris, 438
spinosad, 438
Thailand, 438
tomatoes, 438
NeemAzal,
grain, 1733
Rhyzopertha dominica, 1733
Sitophilus oryzae, 1733
Tribolium confusum, 1733
Neodiprion abietis, 1870, 1876
inoculation dosage, 1876
larval stage, 1876
larval susceptibility, 1870
lethal time–mortality, 1870
nucleopolyhedrovirus, 1870, 1876
virus effects on survivors, 1870
virus production, 1876
neonate,
dispersal, 1648
leaf rolling, 1648
obliquebanded leafroller, 1648
particle spray, 1648
neonicotinoids, 814, 2095
green peach aphid, 2095
imidacloprid, 2095
Myzus persicae, 2095
nontarget arthropods, 814
pest resurgence, 814
predators, 814
Tabasco pepper, 2095
Neoseiulus fallacis,
acari, 2114
nicotinoid, 2114
reduced-risk insecticides, 2114
nicotinoid,
acari, 2114
Neoseiulus fallacis, 2114
reduced-risk insecticides, 2114
Nitidulidae,
Annonaceae, 1193
beneficial insect, 1193
custard apple, 1193
ecosystem service, 1193
nixtamalized corn flour,
Aedes aegypti, 1494
Bacillus thuringiensis, 1494
biological control, 1494
node-injury scale,
corn rootworm, 1
Diabrotica spp., 1
root injury, 1
root rating, 1
nonhost volatiles,
antiaggregation pheromone, 2041
disruptant, 2041
pest management, 2041
Pinus ponderosa, 2041
nontarget arthropods,
neonicotinoids, 814
pest resurgence, 814
predators, 814
nontarget effects,
deltamethrin, 976
Ixodes scapularis, 976
nontarget organism,
areawide control, 1957
beneficial arthropod, 1957
Diabrotica spp., 1957
semiochemical 1957
novaluron,
Leptinotarsa decemlineata, 1685
persistence, 1685
resistance, 1685
synergism, 1685
noviflumuron, 899, 930, 2143
areawide population management, 2143
Blattella germanica, 930
chitin synthesis inhibitor, 899, 930
fipronil, 2143
German cockroach, 899
multi-family housing, 899
ovicidal activity, 930
residual control, 899
thiamethoxam, 2143
nucleopolyhedrovirus, 1870, 1876
inoculation dosage, 1876
larval stage, 1876
larval susceptibility, 1870
lethal time–mortality, 1870
Neodiprion abietis, 1870, 1876
virus effects on survivors, 1870
virus production, 1876
nursery controls,
dormant grape cuttings, 1109
hot-water treatments, 1109
Planococcus ficus, 1109
nutrition, 61, 358
Ceratitis, 61
Galleria mellonella, 358
malondialdehyde, 358
organophosphorus insecticides, 358
sterile insect technique, 61
survival, 61
synthetic diet, 358
α-copaene, 61

O

O-demethylation,
cytochrome P450 monooxygenase, 943
fenvalerate, 943
Helicoverpa armigera, 943
insecticide resistance, 943
obliquebanded leafroller,
dispersal, 1648
leaf rolling, 1648
neonate, 1648
particle spray, 1648
onion maggot,
Delia antiqua, 1848
entomopathogenic fungi, 1848
onion thrips,
onions, 2272
sampling, 2272
Thrips tabaci, 2272
onions,
onion thrips, 2272
sampling, 2272
Thrips tabaci, 2272
optimal defense theory,
greenbug, 1024
induced resistance, 1024
near isogenic line, 1024
wheat, 1024
orchard pest management,
attract and kill, 334
lure and kill, 334
mating disruption, 334
pheromone, 334
organophosphate,
crossover frequency, 171
evolution, 171
pyrethroid, 171
sex determination, 171
organophosphorus insecticides,
Galleria mellonella, 358
malondialdehyde, 358
nutrition, 358
synthetic diet, 358
oriental fruit fly,
Mediterranean fruit fly, 1116
methyl bromide, 1116
quarantine, 1116
oriental fruit moth,
methoxyfenozide, 765
sublethal effects, 765
ornamentals,
black vine weevil, 1884
Heterorhabditis, 1884
host cadavers, 1884
Steinernema, 1884
Osmia,
diapause, 1917
pollinator, 1917
solitary bees, 1917

Ostrinia nubilalis, 103, 237, 395, 856, 982
Bt, 237
Bt corn, 103
Carpophilus lugubris, 856
damage to quality, 395
Diabrotica, 237
economics, 103
European corn borer, 103
Helicoverpa zea, 856
indirect selection, 982
insect predators, 856
maize, 237
phase transition, 982
plant insect interaction, 395
Sesamia nonagrioides, 982
survey, 237
verification, 103
Zea mays, 982
overwinter,
Acarapis woodi, 1796
Italian honey bees, 1796
Russian honey bees, 1796
tracheal mites, 1796
overwintering,
Ceratitis capitata, 739
cold resistance, 739
pest management, 739
sanitation, 739
overwintering range,
Empoasca fabae, 757
migration, 757
spring development, 757
survival, 757
ovicidal activity, 930, 1163
4-(3′;4′-dimethoxyphenyl) buta-1;3-diene, 1163
Blattella germanica, 930
Callosobruchus maculatus, 1163
chitin synthesis inhibitor, 930
formulations, 1163
noviflumuron, 930
Zingiber purpureum, 1163
oviposition, 1572, 1937, 2107, 2133
Anthonomus grandis grandis, 1572
boll weevil, 1572
Bradysia spp., 1937
fecundity, 1937
feeding, 1572
flagging, 2133
flotation/extraction method, 1937
imidacloprid, 2133
Magicicada, 2133
scarring, 2133
soilless growing media, 1937
square size, 1572
tobacco thrips, 2107
western flower thrips, 2107
oviposition preference performance relationships,
insecticides, 2195
Plutella xylostella, 2195
pyrethroids, 2195
ozone,
fumigation, 289
mealybugs, 289
quarantine treatments, 289
thrips, 289

P

Paenibacillus larvae,
foulbrood, 1087
migratory pollination, 1087
Pandemis pyrusana,
apple, 875
Choristoneura rosaceana, 875
instar determination, 875
phenology, 875
paper wasps,
lures, 664
social wasps, 664
vespids, 664
yellowjackets, 664
parasitoid, 202, 704, 1831
abamectin, 1831
acclimation, 704
antibiosis and tolerant sorghum hybrids, 202
aphid, 704
biological control, 202
cold storage, 704
cyromazine, 1831
Liriomyza, 1831
mancozeb, 1831
resistance, 202
parasitoid eggs,
Lysiphlebus testaceipes, 217
PCR, 217
Schizaphis graminum, 217
partial budgeting,
Anthonomus grandis, 796
cotton, 796
planting date, 796
subtropics, 796
particle spray,
dispersal, 1648
leaf rolling, 1648
neonate, 1648
obliquebanded leafroller, 1648
pathogenicity,
alate, 1451
dose response, 1451
field study, 1451
Formosan, 1451
pathway analysis,
Anoplophora glabripennis, 47
eradication, 47
landfills, 47
wood waste, 47
PCR, 217, 279
aster yellows, 279
Circulifer tenellus, 279
insect vector, 279
Lysiphlebus testaceipes, 217
parasitoid eggs, 217
potato purple top, 279
Schizaphis graminum, 217
pear psylla,
leafroller, 423
prohexadione-calcium, 423
spirea aphid, 423
Pectinophora gossypiella,
Bacillus thuringiensis, 635
genetically modified crops, 635
genetics, 635
resistance, 635
penetration,
barrier treatment, 509
Coptotermes formosanus, 509
liquid termiticides, 509
Reticulitermes flavipes, 509
Penthaleus,
competition, 307
earth mite, 307
Halotydeus, 307
interactions, 307
peppers,
damage, 350
population, 350
Zonosemata electa, 350
permethrin-impregnated plastic,
insecticide, 2089
Linepithema humile, 2089
Solenopsis invicta, 2089
persistence, 1459, 1685
apple, 1459
commercial formulation, 1459
Cydia pomonella granulovirus, 1459
inundative biological control, 1459
Leptinotarsa decemlineata, 1685
novaluron, 1685
resistance, 1685
synergism, 1685
pest control,
multilocus, 18
segregation distortion, 18
sterile male, 18
pest densities,
host plant preference, 1018
infestation, 1018
sugarcane tingid, 1018
pest management, 129, 739, 1070, 1791, 2041, 2100, 2210
Aethina tumida, 1791
antiaggregation pheromone, 2041
Ceratitis capitata, 739

cold resistance, 739
controlled atmospheres, 1070
degree-days, 2100
disruptant, 2041
dried beans, 1070
Frankliniella fusca, 129
honey bee, 1791
Lacanobia subjuncta, 2100
methyl bromide alternative, 1070
microsatellite, 2210
molecular biology, 2210
nonhost volatiles, 2041
overwintering, 739
phenology model, 2100
Pinus ponderosa, 2041
resistance management, 2210
sanitation, 739
tobacco thrips, 129
tomato spotted wilt virus, 129
tospovirus, 129
upper hive entrance, 1791
vacuum, 1070
Weibull distribution, 2100
pest resurgence,
neonicotinoids, 814
nontarget arthropods, 814
predators, 814
pesticide compatibility,
IPM, 689
mole crickets, 689
turfgrass, 689
pesticide residues,
aphid parasitoid, 9
population, 9
risk assessment, 9
toxicity, 9
Petroselinum crispum,
action threshold, 1213
economic injury level, 1213
insect pest management, 1213
Listronotus oregonensis, 1213
phagostimulants,
baits, 1284
carbohydrates, 1284
subterranean termites, 1284
Pharaoh ant,
Monomorium pharaonis, 485
repellency, 485
residual insecticide, 485
phase transition,
indirect selection, 982
Ostrinia nubilalis, 982
Sesamia nonagrioides, 982
Zea mays, 982
phenolic compounds,
pith, 1349
resistance, 1349
Sesamia nonagrioides, 1349
Zea mays, 1349
phenology, 875, 1179
apple, 875
borer, 1179
Choristoneura rosaceana, 875
instar determination, 875
Pandemis pyrusana, 875
rice, 1179
Scirpophaga incertulas, 1179
phenology model,
degree-days, 2100
Lacanobia subjuncta, 2100
pest management, 2100
Weibull distribution, 2100
pheromone, 66, 135, 317, 334, 373, 1248, 1506, 1614, 2058, 2067
aging, 373
apple, 1248
attract and kill, 317, 334
attracticide, 317
bark beetle, 1614
beet armyworm, 373
biological control, 1614
Dendroctonus ponderosae, 1614
exotic lure, 2058
fall armyworm, 66
GC-EAD, 2067
Ips, 2058
Leucania phragmatidicola, 66
Lobesia botrana, 135
lure and kill, 317, 334
mating disruption, 135, 317, 334, 1248
monitoring, 66
orchard pest management, 334
Platypus, 1506
quarantine, 2058
repellent, 2067
retusol, 1506
Scolytinae, 2067
semiochemical, 1614, 2067
Spodoptera exigua, 373
Spodoptera frugiperda, 66
sulcatol, 1506
sulcatone, 1506
vineyards, 135
pheromone mating disruption,
horticultural mineral oil, 1630
IPM, 1630
phloxine B,
Bactrocera cucurbitae, 1170
Bactrocera dorsalis, 1170
Ceratitis capitata, 1170
spinosad, 1170
phosalone,
bioassay method, 2176
Leptinotarsa decemlineata, 2176
susceptibility, 2176
Phyllocnistis citrella,
Bacillus thuringiensis, 1880
biological control, 1880
larval mortality, 1880
Phyllocoptruta oleivora,
accuracy, 1048
Aculops pelekassi, 1048
detection, 1048
precision, 1048
phylogenesis,
COI, 2235
equids, 2235
Gasterophilus, 2235
identification, 2235
physical barrier,
deterrent, 2079
kaolin, 2079
repellent, 2079
whitewash, 2079
phytosanitary,
Anastrepha ludens, 1905
commodity treatment, 1905
heat treatment, 1905
quarantine, 1905
PI 386156,
antibiosis, 603
PI 611811, 603
Rhopalosiphum padi, 603
tolerance, 603
PI 611811,
antibiosis, 603
PI 386156, 603
Rhopalosiphum padi, 603
tolerance, 603
Pierce's disease,
leafhopper, 1664
sharpshooter, 1664
vector, 1664
Xylella fastidiosa, 1664
Pinus ponderosa,
antiaggregation pheromone, 2041
disruptant, 2041
nonhost volatiles, 2041
pest management, 2041
Pinus sylvestris,
Chionaspis pinifoliae, 1603
Christmas trees, 1603
horticultural oil, 1603
IPM, 1603
Piper nigrum,
Piperaceae, 845
Rhizotrogus majalis, 845
Piperaceae,
Piper nigrum, 845
Rhizotrogus majalis, 845
pith,
phenolic compounds, 1349
resistance, 1349
Sesamia nonagrioides, 1349
Zea mays, 1349
Planococcus ficus,
dormant grape cuttings, 1109
hot-water treatments, 1109
nursery controls, 1109

plant breeding,
antixenosis, 1710
Lycopersicon, 1710
sesquiterpenoid, 1710
trichome, 1710
plant growth analysis,
Cucumis sativus, 457
damage, 457
glasshouse, 457
Tetranychus urticae, 457
plant insect interaction,
damage to quality, 395
Ostrinia nubilalis, 395
plant pathogens,
Circulifer tenellus, 1824
reproduction, 1824
settling behavior, 1824
survival, 1824
plant resistance, 1032, 1704
Diuraphis noxia, 1032
Empoasca fabae, 1704
glandular trichomes, 1704
insect–plant interactions, 1704
reproduction, 1032
Solanum berthaultii, 1704
survival, 1032
Triticum aestivum, 1032
planthopper vector,
genetic resistance, 1374
maize disease, 1374
planting date, 796, 1435, 2020
Anthonomus grandis, 796
Barley yellow dwarf virus, 2020
cereal aphids, 2020
cotton, 796
Frankliniella fusca, 1435
partial budgeting, 796
Rhopalosiphum padi, 2020
subtropics, 796
tobacco thrips, 1435
Tomato spotted wilt virus, 1435
TSWV, 1435
Platynota idaeusalis,
action thresholds, 1229
apples, 1229
integrated pest management, 1229
predictive model, 1229
Platypus,
pheromone, 1506
retusol, 1506
sulcatol, 1506
sulcatone, 1506
Plectranthus,
Glossocarya, 1259
insect cell lines, 1259
Tetranychus urticae, 1259
Pleurotus,
Agaricus, 342
development, 342
Lycoriella mali, 342
shiitake, 342
Plodia interpunctella,
cold hardiness, 618
low temperatures, 618
minimum exposure, 618
supercooling point, 618
Plutella xylostella, 836, 884, 2188, 2195
Bacillus thuringiensis, 2188
Barbarea vulgaris, 884
diamondback moth, 2188
glossy collards, 836
insecticides, 2195
management, 884
oviposition preference performance relationships, 2195
PR-1A promoter, 2188
pyrethroids, 2195
resistance management, 2188
tomato, 836
trap crop, 884
water stress, 836
yellow rocket, 836
pod set,
Apis mellifera, 367
Brassica napus, 367
pollination, 367
seed production, 367
pollination, 367, 656, 790
amino acids, 656
Apis mellifera, 367
Arbutus, 656
Bombus, 656
Brassica napus, 367
pod set, 367
pumpkin, 790
seed production, 367
squash, 790
sterols, 656
sustainable agriculture, 790
tillage, 790
pollinator,
diapause, 1917
Osmia, 1917
solitary bees, 1917
polymorphism,
Aphis gossypii, 1325
carboxylesterase, 1325
gene, 1325
insecticide resistance, 1325
pome fruit,
mitochondrial COI, 299
quantitative PCR, 299
quarantine pests, 299
popcorn,
maize, 1694
resistance, 1694
Sesamia nonagrioides, 1694
Popillia japonica,
compatibility, 694
insecticides, 694
Japanese beetle, 694
Tiphia vernalis, 694
population, 9, 350
aphid parasitoid, 9
damage, 350
peppers, 350
pesticide residues, 9
risk assessment, 9
toxicity, 9
Zonosemata electa, 350
population dynamics, 195, 222, 557, 1441
aphid-trapping, 1441
Bemisia tabaci, 557
Bt transgenic cotton, 195
China, 195
Cucumis melo, 557
Helicoverpa armigera, 195
host plant resistance, 557
insecticidal protein expression, 195
postharvest, 222
potato tuberworm, 222
Potyvirus, 1441
Prunus, 1441
traditional storage, 222
Va gene, 557
Populus,
Anoplophora, 1911
fumigation, 1911
methyl bromide, 1911
quarantine, 1911
Populus deltoides,
ethanol, 2049
fertilization, 2049
invasive species, 2049
Xyleborini, 2049
Populus maximowiczii,
antibiosis, 2254
Cryptorhynchus lapathi, 2254
hybrid poplar, 2254
resistance, 2254
postharvest, 222, 1899
aphid, 1899
lettuce, 1899
population dynamics, 222
potato tuberworm, 222
quarantine treatment, 1899
traditional storage, 222
ultralow oxygen, 1899
potassium deficiency,
Aphis glycines, 113
life table, 113
soybean, 113
potato leafhopper,
alfalfa weevil, 72
glandular-haired alfalfa, 72
resistant alfalfa, 72

potato purple top,
aster yellows, 279
Circulifer tenellus, 279
insect vector, 279
PCR, 279
potato tuberworm,
population dynamics, 222
postharvest, 222
traditional storage, 222
Potyvirus,
aphid-trapping, 1441
population dynamics, 1441
Prunus, 1441
poultry litter,
Alphitobius diaperinus, 229
darkling beetle, 229
litter beetle, 229
poultry pest management, 229
poultry manure, 1739, 1744
Alphitobius diaperinus, 1739, 1744
darkling beetle, 1739, 1744
integrated pest management, 1744
IPM, 1739
litter beetle, 1739, 1744
poultry pest management,
Alphitobius diaperinus, 229
darkling beetle, 229
litter beetle, 229
poultry litter, 229
PR-1A promoter,
Bacillus thuringiensis, 2188
diamondback moth, 2188
Plutella xylostella, 2188
resistance management, 2188
Prays oleae,
(Z)-7-tetradecenal, 1499
monitoring, 1499
precision,
accuracy, 1048
Aculops pelekassi, 1048
detection, 1048
Phyllocoptruta oleivora, 1048
predators,
neonicotinoids, 814
nontarget arthropods, 814
pest resurgence, 814
predictive model,
action thresholds, 1229
apples, 1229
integrated pest management, 1229
Platynota idaeusalis, 1229
preference, 82, 1101
boll development, 82
green peach aphid, 1101
Myzus persicae, 1101
reproduction, 1101
sampling, 82
Solanum sarrachoides, 1101
stink bugs, 82
proactive,
boll weevil, 1977
cotton, 1977
insecticide, 1977
threshold, 1977
prohexadione-calcium,
leafroller, 423
pear psylla, 423
spirea aphid, 423
protected cultivation,
greenhouse pollination, 260
Lycopersicon, 260
stingless bee, 260
Prunus,
aphid-trapping, 1441
population dynamics, 1441
Potyvirus, 1441
pumpkin,
pollination, 790
squash, 790
sustainable agriculture, 790
tillage, 790
pupal weight,
Anastrepha, 1930
Diptera, 1930
mating competitiveness, 1930
Tephritidae, 1930
pyrethroid, 171, 2195, 2203
Bollgard, 2203
cotton, 2203
crossover frequency, 171
evolution, 171
Heliothis virescens, 2203
insecticide resistance, 2203
insecticides, 2195
organophosphate, 171
oviposition preference performance relationships, 2195
Plutella xylostella, 2195
sex determination, 171
pyrethrum,
azadirachtin, 1236
Rhagoletis mendax, 1236
spinosad, 1236
Vaccinium, 1236
pyriproxyfen,
juvenile hormone analogs, 2169
queen, 2169
S-methoprene, 2169

Q

quality control,
Cochliomyia hominivorax, 2301
mass rearing, 2301
sterile insect technique, 2301
transgenic insect, 2301
quantitative PCR,
mitochondrial COI, 299
pome fruit, 299
quarantine pests, 299
quantitative sampling,
Bradysia spp., 1399
efficiency, 1399
$MgSO_4$ flotation, 1399
soilless growing media, 1399
quantitative trait loci,
genetic linkage map, 595
greenbug, 595
sorghum, 595
tolerance, 595
quarantine, 284, 709, 1116, 1905, 1911, 2058
Anastrepha ludens, 1905
Anoplophora, 1911
cherry, 709
commodity treatment, 1905
controlled atmosphere, 709
Cydia pomonella, 709
exotic lure, 2058
fumigation, 1911
heat treatment, 1905
hot water immersion, 284
Ips, 2058
mealybug, 284
Mediterranean fruit fly, 1116
methyl bromide, 1116, 1911
oriental fruit fly, 1116
pheromone, 2058
phytosanitary, 1905
Populus, 1911
quarantine pests,
mitochondrial COI, 299
pome fruit, 299
quantitative PCR, 299
quarantine treatment, 289, 1899
aphid, 1899
fumigation, 289
lettuce, 1899
mealybugs, 289
ozone, 289
postharvest, 1899
thrips, 289
ultralow oxygen, 1899
queen,
juvenile hormone analogs, 2169
pyriproxyfen, 2169
S-methoprene, 2169

R

redistribution,
movement, 1413
stored grain, 1413
temperature gradient, 1413
Tribolium castaneum, 1413
reduced-risk insecticides,
acari, 2114
Neoseiulus fallacis, 2114
nicotinoid, 2114
refuge,
Bacillus thuringiensis, 1751
dispersal, 1751

genetically modified crops, 1751
resistance management, 1751
regression,
modeling, 1157
soybean aphid, 1157
release ratios,
Cryptophlebia leucotreta, 1924
field cages, 1924
insect competitiveness, 1924
repellency,
Monomorium pharaonis, 485
Pharaoh ant, 485
residual insecticide, 485
repellent, 2067, 2079
deterrent, 2079
GC-EAD, 2067
kaolin, 2079
pheromone, 2067
physical barrier, 2079
Scolytinae, 2067
semiochemical, 2067
whitewash, 2079
repellent effect,
essential oils, 651
LD_{50}, 651
Varroa destructor, 651
reproduction, 1032, 1101, 1824
Circulifer tenellus, 1824
Diuraphis noxia, 1032
green peach aphid, 1101
Myzus persicae, 1101
plant pathogens, 1824
plant resistance, 1032
preference, 1101
settling behavior, 1824
Solanum sarrachoides, 1101
survival, 1032, 1824
Triticum aestivum, 1032
reproductive impairment,
heat treatment, 626
methyl bromide alternative, 626
Tribolium castaneum, 626
reproductive indices,
Anthonomus grandis grandis, 749
boll weevil, 749
cotton, 749
residual control,
chitin synthesis inhibitor, 899
German cockroach, 899
multi-family housing, 899
noviflumuron, 899
residual insecticide,
Monomorium pharaonis, 485
Pharaoh ant, 485
repellency, 485
residues,
effectiveness, 267
evaporation rate, 267
formic acid, 267
Varroa destructor, 267
resistance, 202, 210, 552, 611, 635, 1311, 1349, 1357, 1685, 1694, 2137, 2254
acaricide, 552
Anacanthotermes ochraceus, 2137
antibiosis, 2254
antibiosis and tolerant sorghum hybrids, 202
Bacillus thuringiensis, 635, 1311, 1357
biological control, 202
Boophilus microplus, 552
carbaryl, 552
cassava genotypes, 611
cattle tick, 552
chickpea, 210
Cryptorhynchus lapathi, 2254
damage assessment, 2137
fitness, 1311
genetically modified crops, 635
genetics, 635
Helicoverpa, 210
Helicoverpa armigera, 1311
hybrid poplar, 2254
Leptinotarsa decemlineata, 1685
linkage, 1357
maize, 1694
novaluron, 1685
parasitoid, 202
Pectinophora gossypiella, 635
persistence, 1685
phenolic compounds, 1349
pith, 1349
popcorn, 1694
Populus maximowiczii, 2254
Sesamia nonagrioides, 1349, 1694
synergism, 1685
tobacco budworm, 1357
transgenic cotton, 1311
whitefly infestation, 611
wood, 2137
Zea mays, 1349
resistance management, 578, 947, 1126, 1294, 1751, 2188, 2210, 2220
Bacillus thuringiensis, 578, 947, 1126, 1751, 2188
Bt corn, 2220
Bt crops, 947
cotton cultivars, 947
crop rotation, 2220
density dependence, 2220
Diabrotica barberi, 2220
Diabrotica virgifera virgifera, 1126, 1294
diamondback moth, 2188
dispersal, 1294, 1751
fitness costs, 947
genetically modified crops, 1751
high dose, 578
larval movement, 1126
Lepidoptera, 578
microsatellite, 2210
molecular biology, 2210
movement, 1294
pest management, 2210
Plutella xylostella, 2188
PR-1A promoter, 2188
refuge, 1751
transgenic, 1126
transgenic soybean, 578
resistance screening,
detached leaf assay, 568
Helicoverpa, 568
transgenics, 568
resistant alfalfa,
alfalfa weevil, 72
glandular-haired alfalfa, 72
potato leafhopper, 72
Reticulitermes,
attractant, 476
carbon dioxide, 476
termites, 476
Reticulitermes flavipes, 471, 509, 906, 911, 916, 933
barrier treatment, 509
Coptotermes formosanus, 471, 509, 906, 911
DNA fingerprinting, 916
eastern subterranean termite, 471
fast acting, 911
fipronil, 906
foraging, 933
Formosan subterranean termite, 471, 916
liquid termiticides, 509
penetration, 509
Reticulitermes tibialis, 933
Reticulitermes virginicus, 933
slow acting, 911
soil moisture, 933
succession ecology, 916
termite baiting, 916
thiamethoxam, 906
two-dimensional foraging arena, 471
Reticulitermes tibialis,
foraging, 933
Reticulitermes flavipes, 933
Reticulitermes virginicus, 933
soil moisture, 933
Reticulitermes virginicus,
foraging, 933
Reticulitermes flavipes, 933
Reticulitermes tibialis, 933
soil moisture, 933

retusol,
pheromone, 1506
Platypus, 1506
sulcatol, 1506
sulcatone, 1506
Rhagoletis indifferens,
attraction, 1654
feeding, 1654
GF-120 NF Naturalyte Fruit Fly Bait, 1654
spinosad concentrations, 1654
Rhagoletis mendax, 432, 1236
azadirachtin, 1236
bait sprays, 432
behavior, 432
insect control, 432
pyrethrum, 1236
Rhagoletis pomonella, 432
spinosad, 1236
Vaccinium, 1236
Rhagoletis pomonella,
bait sprays, 432
behavior, 432
insect control, 432
Rhagoletis mendax, 432
Rhinotermitidae,
breeding system, 1421
Isoptera, 1421
microsatellite genotyping, 1421
Rhizotrogus majalis,
Piper nigrum, 845
Piperaceae, 845
Rhopalosiphum padi, 95, 603, 2013, 2020
antibiosis, 603
Barley yellow dwarf virus, 2013, 2020
cereal aphid, 2013
cereal aphids, 2020
chemical control, 95
economics, 95
PI 386156, 603
PI 611811, 603
planting date, 2020
Schizaphis graminum, 95
tolerance, 603
winter wheat, 2013
yield loss, 2013
Rhyacionia frustrana,
augmentaion biological control, 409
tebufenozide, 409
Trichogramma exiguum, 409
Rhyzopertha dominica, 1733, 2282
flour, 2282
grain, 1733
insect fragments, 2282
near-infrared spectroscopy, 2282
NeemAzal, 1733
Sitophilus oryzae, 1733
stored products, 2282
Tribolium confusum, 1733
rice,
borer, 1179
phenology, 1179
Scirpophaga incertulas, 1179
rice weevil,
barley, 1404
diatomaceous earth, 1404
insecticidal effect, 1404
wheat, 1404
risk assessment,
aphid parasitoid, 9
pesticide residues, 9
population, 9
toxicity, 9
root aphids,
ants, 891
Geoica, 891
Lasius neoniger, 891
turfgrass, 891
root injury, 1, 1587
corn rootworm, 1
crop rotation, 1587
Diabrotica spp., 1
Diabrotica virgifera virgifera, 1587
node-injury scale, 1
root rating, 1
variant western corn rootworm, 1587
root rating,
corn rootworm, 1
Diabrotica spp., 1
node-injury scale, 1
root injury, 1
rootstocks,
apple, 2121
dogwood borer, 2121
Sesiidae, 2121
Synanthedon scitula, 2121
rootworm larvae,
bioassay, 1150
Diabrotica, 1150
feeding stimulants, 1150
insect behavior, 1150
round bales,
hay, 2307
larval habitats, 2307
stable flies, 2307
Russian honey bees,
Acarapis woodi, 1796
Italian honey bees, 1796
overwinter, 1796
tracheal mites, 1796

S

S-methoprene,
juvenile hormone analogs, 2169
pyriproxyfen, 2169
queen, 2169
sampling, 82, 821, 1391, 2272
boll development, 82
coffee pest, 821
contact insecticide, 1391
farmer participatory research, 821
IPM, 1391
onion thrips, 2272
onions, 2272
preference, 82
stink bugs, 82
stored-product insects, 1391
Taylor's Power Law, 821
Thrips tabaci, 2272
trapping, 1391
sanitation,
Ceratitis capitata, 739
cold resistance, 739
overwintering, 739
pest management, 739
scale insect,
Calico scale, 1202
Eulecanium cerasorum, 1202
scales,
mealybugs, 772
monoterpenes, 772
natural insecticides, 772
surfactants, 772
scarring,
flagging, 2133
imidacloprid, 2133
Magicicada, 2133
oviposition, 2133
Schizaphis graminum, 95, 217, 2260
antibiosis, 2260
antixenosis, 2260
chemical control, 95
economics, 95
Lysiphlebus testaceipes, 217
parasitoid eggs, 217
PCR, 217
Rhopalosiphum padi, 95
tolerance, 2260
wheat, 2260
school IPM,
Blattella germanica, 1275
German cockroach, 1275
IPM, 1275
Scirpophaga incertulas,
borer, 1179
phenology, 1179
rice, 1179
Scolytinae,
GC-EAD, 2067
pheromone, 2067
repellent, 2067
semiochemical, 2067
Secondary pests,
Anastrepha, 1950
bait sprays, 1950

seed production,
Apis mellifera, 367
Brassica napus, 367
pod set, 367
pollination, 367
segregation distortion,
multilocus, 18
pest control, 18
sterile male, 18
semiochemical, 1614, 1957, 2067
areawide control, 1957
bark beetle, 1614
beneficial arthropod, 1957
biological control, 1614
Dendroctonus ponderosae, 1614
Diabrotica spp., 1957
GC-EAD, 2067
nontarget organism, 1957
pheromone, 1614, 2067
repellent, 2067
Scolytinae, 2067
Sesamia nonagrioides, 464, 982, 1349, 1694
Bacillus thuringiensis, 464
diapause, 464
indirect selection, 982
maize, 1694
Ostrinia nubilalis, 982
phase transition, 982
phenolic compounds, 1349
pith, 1349
popcorn, 1694
resistance, 1349, 1694
transgenic corn, 464
Zea mays, 982, 1349
Sesiidae,
apple, 2121
dogwood borer, 2121
rootstocks, 2121
Synanthedon scitula, 2121
sesquiterpenoid,
antixenosis, 1710
Lycopersicon, 1710
plant breeding, 1710
trichome, 1710
settling behavior,
Circulifer tenellus, 1824
plant pathogens, 1824
reproduction, 1824
survival, 1824
sex determination,
crossover frequency, 171
evolution, 171
organophosphate, 171
pyrethroid, 171
sharpshooter,
leafhopper, 1664
Pierce's disease, 1664
vector, 1664
Xylella fastidiosa, 1664
shiitake,
Agaricus, 342
development, 342
Lycoriella mali, 342
Pleurotus, 342
side effect,
biological control, 35
insecticides, 35
Trissolcus grandis, 35
silkworm,
cocoon, 1717
deterministic model, 1717
economic value, 1717
silverleaf whitefly,
Bemisia argentifolii, 1242
biorational, 1242
sugar ester, 1242
Silwet L-77,
Beauveria bassiana, 683
botanical insecticides, 683
mineral oil, 683
Tribolium castaneum, 683
simulation model, 518, 534
crop rotation, 518, 534
Diabrotica virgifera virgifera, 518, 534
insect resistance management, 518, 534
transgenic corn, 518, 534
sink-limitation,
barley, 1969
harvest index, 1969
subarctic, 1969
yield, 1969
site-specific pest management,
corn rootworms, 121
Diabrotica spp., 121
geographic information system, 121
geostatistics, 121
Sitophilus oryzae,
grain, 1733
NeemAzal, 1733
Rhyzopertha dominica, 1733
Tribolium confusum, 1733
slow acting,
Coptotermes formosanus, 911
fast acting, 911
Reticulitermes flavipes, 911
social wasps,
lures, 664
paper wasps, 664
vespids, 664
yellowjackets, 664
soil moisture, 154, 933
foraging, 933
irrigation, 154
Reticulitermes flavipes, 933
Reticulitermes tibialis, 933
Reticulitermes virginicus, 933
strawberries, 154
temperature, 154
twospotted spider mite, 154
soilless growing media, 1399, 1937
Bradysia spp., 1399, 1937
efficiency, 1399
fecundity, 1937
flotation/extraction method, 1937
$MgSO_4$ flotation, 1399
oviposition, 1937
quantitative sampling, 1399
Solanum berthaultii,
Empoasca fabae, 1704
glandular trichomes, 1704
insect–plant interactions, 1704
plant resistance, 1704
Solanum sarrachoides,
green peach aphid, 1101
Myzus persicae, 1101
preference, 1101
reproduction, 1101
Solenopsis invicta, 2089, 2153
boric acid, 2153
crop load, 2153
insecticide, 2089
Linepithema humile, 2089
permethrin-impregnated plastic, 2089
starvation, 2153
viscosity, 2153
solitary bees,
diapause, 1917
Osmia, 1917
pollinator, 1917
sorghum,
genetic linkage map, 595
greenbug, 595
quantitative trait loci, 595
tolerance, 595
southern green stink bug,
brown stink bug, 177
green stink bug, 177
insecticides, 177
soya,
Bacillus thuringiensis, 1890
biopesticide, 1890
liquid formulation, 1890
starch industry wastewater, 1890
soybean, 113, 780
Aphis glycines, 113
conservation biological control, 780
Harmonia axyridis, 780
life table, 113
potassium deficiency, 113
sweet corn, 780
topical assay, 780
soybean aphid,
modeling, 1157
regression, 1157

spatial analysis,
Indianmeal moth, 326
monitoring, 326
stored-product insects, 326
trapping, 326
spatial dispersion,
corn root injury, 378
corn rootworms, 378
Diabrotica spp., 378
geostatistics, 378
spatiotemporal distribution,
grain trier, 1058
stored wheat, 1058
stored-product insects, 1058
stored-product mites, 1058
spider mites,
bedding plants, 1040
binomial sampling, 1040
floriculture, 1040
spinosad, 438, 1170, 1236
azadirachtin, 1236
Bactrocera cucurbitae, 1170
Bactrocera dorsalis, 1170
Ceratitis capitata, 1170
Ceratothripoides claratris, 438
neem, 438
phloxine B, 1170
pyrethrum, 1236
Rhagoletis mendax, 1236
Thailand, 438
tomatoes, 438
Vaccinium, 1236
spinosad concentrations,
attraction, 1654
feeding, 1654
GF-120 NF Naturalyte Fruit Fly Bait, 1654
Rhagoletis indifferens, 1654
spirea aphid,
leafroller, 423
pear psylla, 423
prohexadione-calcium, 423
Spodoptera exigua,
aging, 373
beet armyworm, 373
pheromone, 373
Spodoptera frugiperda,
fall armyworm, 66
Leucania phragmatidicola, 66
monitoring, 66
pheromone, 66
spring development,
Empoasca fabae, 757
migration, 757
overwintering range, 757
survival, 757
spruce seed orchard,
Bacillus thuringiensis, 402
biological control, 402
cone insects, 402
large-scale spraying, 402
square size,
Anthonomus grandis grandis, 1572
boll weevil, 1572
feeding, 1572
oviposition, 1572
squash,
pollination, 790
pumpkin, 790
sustainable agriculture, 790
tillage, 790
stable flies,
hay, 2307
larval habitats, 2307
round bales, 2307
starch industry wastewater,
Bacillus thuringiensis, 1890
biopesticide, 1890
liquid formulation, 1890
soya, 1890
starvation,
boric acid, 2153
crop load, 2153
Solenopsis invicta, 2153
viscosity, 2153
Steinernema, 1486, 1863, 1884
bark scorpions, 1486
black vine weevil, 1884
Centruroides exilicauda, 1486
Cydia pomonella, 1863
entomopathogenic nematodes, 1486, 1863
formulation, 1863
fruit bins, 1863
Heterorhabditis, 1486, 1884
host cadavers, 1884
ornamentals, 1884
Steinernema feltiae,
chrysanthemum, 1480
foliar application, 1480
Frankliniella occidentalis, 1480
sterile insect,
biosecurity, 1531
dispersal, 1531
Lymantriidae, 1531
Teia anartoides, 1531
sterile insect technique, 61, 248, 1510, 2301
Anastrepha ludens, 1510
Ceratitis, 61
Cochliomyia hominivorax, 2301
codling moth, 248
genetic sexing, 248
insect transgenesis, 248
irradiation doses, 1510
Lepidoptera, 248
mass rearing, 2301
mating competitiveness, 1510
nutrition, 61
quality control, 2301
sterility induction, 1510
survival, 61
transgenic insect, 2301
α-copaene, 61
sterile male,
multilocus, 18
pest control, 18
segregation distortion, 18
sterile release,
grapefruit, 1641
lures, 1641
McPhail, 1641
Multi-Lure, 1641
sterility induction,
Anastrepha ludens, 1510
irradiation doses, 1510
mating competitiveness, 1510
sterile insect technique, 1510
sterols,
amino acids, 656
Arbutus, 656
Bombus, 656
pollination, 656
Stewart's wilt,
Chaetocnema pulicaria, 673
disease incidence, 673
insect vector, 673
stimulation fecundity,
buprofezin, 1144
imidacloprid, 1144
JHIII, 1144
Tryporyza incertulas, 1144
stingless bee,
greenhouse pollination, 260
Lycopersicon, 260
protected cultivation, 260
stink bugs,
boll development, 82
preference, 82
sampling, 82
stored grain,
movement, 1413
redistribution, 1413
temperature gradient, 1413
Tribolium castaneum, 1413
stored products,
flour, 2282
insect fragments, 2282
near-infrared spectroscopy, 2282
Rhyzopertha dominica, 2282
stored wheat,
grain trier, 1058
spatiotemporal distribution, 1058
stored-product insects, 1058
stored-product mites, 1058
stored-product insects, 326, 1058, 1391, 1723
automated monitoring, 1723
contact insecticide, 1391
detection, 1723
grain probe trap, 1723
grain trier, 1058

Indianmeal moth, 326
infrared sensors, 1723
IPM, 1391
monitoring, 326
sampling, 1391
spatial analysis, 326
spatiotemporal distribution, 1058
stored wheat, 1058
stored-product mites, 1058
trapping, 326, 1391
stored-product mites,
grain trier, 1058
spatiotemporal distribution, 1058
stored wheat, 1058
stored-product insects, 1058
strawberries,
irrigation, 154
soil moisture, 154
temperature, 154
twospotted spider mite, 154
subarctic,
barley, 1969
harvest index, 1969
sink-limitation, 1969
yield, 1969
sublethal effects,
methoxyfenozide, 765
oriental fruit moth, 765
subterranean termites,
baits, 1284
carbohydrates, 1284
phagostimulants, 1284
subtropics,
Anthonomus grandis, 796
cotton, 796
partial budgeting, 796
planting date, 796
succession ecology,
DNA fingerprinting, 916
Formosan subterranean termite, 916
Reticulitermes flavipes, 916
termite baiting, 916
sugar ester,
Bemisia argentifolii, 1242
biorational, 1242
silverleaf whitefly, 1242
sugarcane tingid,
host plant preference, 1018
infestation, 1018
pest densities, 1018
sulcatol,
pheromone, 1506
Platypus, 1506
retusol, 1506
sulcatone, 1506
sulcatone,
pheromone, 1506
Platypus, 1506
retusol, 1506
sulcatol, 1506
supercooling point,
cold hardiness, 618
low temperatures, 618
minimum exposure, 618
Plodia interpunctella, 618
suppression,
Bactrocera cucurbitae, 1551
Bactrocera dorsalis, 1551
fipronil, 1551
male annihilation, 1551
surfactants,
mealybugs, 772
monoterpenes, 772
natural insecticides, 772
scales, 772
survey,
Bt, 237
Diabrotica, 237
maize, 237
Ostrinia nubilalis, 237
survival, 61, 757, 1032, 1824
Ceratitis, 61
Circulifer tenellus, 1824
Diuraphis noxia, 1032
Empoasca fabae, 757
migration, 757
nutrition, 61
overwintering range, 757
plant pathogens, 1824
plant resistance, 1032
reproduction, 1032, 1824
settling behavior, 1824
spring development, 757
sterile insect technique, 61
Triticum aestivum, 1032
α-copaene, 61
susceptibility,
bioassay method, 2176
Leptinotarsa decemlineata, 2176
phosalone, 2176
sustainable agriculture,
pollination, 790
pumpkin, 790
squash, 790
tillage, 790
swarming,
Apis mellifera, 274
behavioral development, 274
juvenile hormone, 274
sweet corn,
conservation biological control, 780
Harmonia axyridis, 780
soybean, 780
topical assay, 780
sweetpotato whitefly,
Bemisia tabaci, 2266
Bion, 2266
BTH, 2266
induced resistance, 2266
Synanthedon scitula,
apple, 2121
dogwood borer, 2121
rootstocks, 2121
Sesiidae, 2121
synergism, 1566, 1685
Biotin, 1566
Bt, 1566
Lepidoptera, 1566
Leptinotarsa decemlineata, 1685
novaluron, 1685
persistence, 1685
resistance, 1685
synthetic diet,
Galleria mellonella, 358
malondialdehyde, 358
nutrition, 358
organophosphorus insecticides, 358

T

Tabasco pepper,
green peach aphid, 2095
imidacloprid, 2095
Myzus persicae, 2095
neonicotinoids, 2095
taro,
Aphis gossypii, 996
Colocasia esculenta, 996
host resistance, 996
Xanthosoma sagittifolium, 996
Taylor's Power Law,
coffee pest, 821
farmer participatory research, 821
sampling, 821
tebufenozide, 409, 415, 955
augmentaion biological control, 409
bioassay, 415
Diatraea saccharalis, 955
insect growth regulator, 415
insecticide resistance, 955
larvae, 415
methoxyfenozide, 415
Rhyacionia frustrana, 409
Trichogramma exiguum, 409
Teia anartoides,
biosecurity, 1531
dispersal, 1531
Lymantriidae, 1531
sterile insect, 1531
temperature, 154, 1524
biological control, 1524
Coenosia attenuata, 1524
functional response, 1524
irrigation, 154
soil moisture, 154
strawberries, 154
twospotted spider mite, 154

temperature gradient,
movement, 1413
redistribution, 1413
stored grain, 1413
Tribolium castaneum, 1413
Tephritidae,
Anastrepha, 1930
Diptera, 1930
mating competitiveness, 1930
pupal weight, 1930
termite, 476, 2160
attractant, 476
carbon dioxide, 476
Coptotermes formosanus, 2160
dwellings, 2160
imidacloprid, 2160
Reticulitermes, 476
termite baiting,
DNA fingerprinting, 916
Formosan subterranean termite, 916
Reticulitermes flavipes, 916
succession ecology, 916
Tetranychus urticae, 457, 862, 1259
Amblyseius fallacis, 862
Cucumis sativus, 457
damage, 457
glasshouse, 457
Glossocarya, 1259
ground cover, 862
insect cell lines, 1259
plant growth analysis, 457
Plectranthus, 1259
Typhlodromus pyri, 862
weather, 862
tetravirus,
baculovirus, 1839
biopesticide, 1839
Helicoverpa armigera, 1839
Helicoverpa armigera stunt virus, 1839
Thailand,
Ceratothripoides claratris, 438
neem, 438
spinosad, 438
tomatoes, 438
thiamethoxam, 906, 2143, 2292
areawide population management, 2143
clothianidin, 2292
Coptotermes formosanus, 906
dinotefuran, 2292
fipronil, 906, 2143
imidacloprid, 2292
LC_{50}, 2292
noviflumuron, 2143
Reticulitermes flavipes, 906
threshold,
boll weevil, 1977
cotton, 1977
insecticide, 1977
proactive, 1977
thrips,
fumigation, 289
mealybugs, 289
ozone, 289
quarantine treatments, 289
Thrips tabaci,
onion thrips, 2272
onions, 2272
sampling, 2272
tillage,
pollination, 790
pumpkin, 790
squash, 790
sustainable agriculture, 790
Tiphia vernalis,
compatibility, 694
insecticides, 694
Japanese beetle, 694
Popillia japonica, 694
tobacco budworm,
Bacillus thuringiensis, 1357
linkage, 1357
resistance, 1357
tobacco thrips, 129, 1435, 1810, 2107
alternate hosts, 1810
Frankliniella fusca, 129, 1435
oviposition, 2107
pest management, 129
planting date, 1435
Tomato spotted wilt virus, 129, 1435
tospovirus, 129
TSWV, 1435
western flower thrips, 1810, 2107
tolerance, 188, 595, 603, 2260
antibiosis, 603, 2260
antixenosis, 2260
aphids, 188
Aphis pomi, 188
Aphis spiraecola, 188
genetic linkage map, 595
greenbug, 595
imidacloprid, 188
PI 386156, 603
PI 611811, 603
quantitative trait loci, 595
Rhopalosiphum padi, 603
Schizaphis graminum, 2260
sorghum, 595
toxicity, 188
wheat, 2260
tomato, 438, 836
Ceratothripoides claratris, 438
glossy collards, 836
neem, 438
Plutella xylostella, 836
spinosad, 438
Thailand, 438
water stress, 836
yellow rocket, 836
Tomato spotted wilt virus, 129, 1435
Frankliniella fusca, 129, 1435
pest management, 129
planting date, 1435
tobacco thrips, 129, 1435
tospovirus, 129
TSWV, 1435
topical assay,
conservation biological control, 780
Harmonia axyridis, 780
soybean, 780
sweet corn, 780
tospovirus,
Frankliniella fusca, 129
pest management, 129
tobacco thrips, 129
tomato spotted wilt virus, 129
toxicity, 9, 188
aphid parasitoid, 9
aphids, 188
Aphis pomi, 188
Aphis spiraecola, 188
imidacloprid, 188
pesticide residues, 9
population, 9
risk assessment, 9
tolerance, 188
tracheal mites,
Acarapis woodi, 1796
Italian honey bees, 1796
overwinter, 1796
Russian honey bees, 1796
traditional storage,
population dynamics, 222
postharvest, 222
potato tuberworm, 222
transgenic, 568, 1126
Bacillus thuringiensis, 1126
detached leaf assay, 568
Diabrotica virgifera virgifera, 1126
Helicoverpa, 568
larval movement, 1126
resistance management, 1126
resistance screening, 568
transgenic corn, 464, 518, 534, 961
Bacillus thuringiensis, 464
crop rotation, 518, 534
Diabrotica virgifera virgifera, 518, 534, 961
diapause, 464
insect resistance management, 518, 534, 961
integrated pest management, 961
modeling, 961
Sesamia nonagrioides, 464
simulation model, 518, 534

transgenic cotton,
Bacillus thuringiensis, 1311
fitness, 1311
Helicoverpa armigera, 1311
resistance, 1311
transgenic insect,
Cochliomyia hominivorax, 2301
mass rearing, 2301
quality control, 2301
sterile insect technique, 2301
transgenic soybean,
Bacillus thuringiensis, 578
high dose, 578
Lepidoptera, 578
resistance management, 578
trap crop,
Barbarea vulgaris, 884
management, 884
Plutella xylostella, 884
trap lure,
Acanthocinus obsoletus, 2033
ipsdienol, 2033
ipsenol, 2033
Monochamus titillator, 2033
trapping, 326, 1391
contact insecticide, 1391
Indianmeal moth, 326
IPM, 1391
monitoring, 326
sampling, 1391
spatial analysis, 326
stored-product insects, 326, 1391
treatment,
Apis mellifera, 1802
CT product, 1802
Varroa destructor, 1802
treatment threshold,
dispersal, 1763
economic threshold, 1763
IPM, 1763
modeling, 1763
Trialeurodes vaporariorum,
behavior, 1221
films, 1221
UV-absorbing, 1221
Tribolium castaneum, 626, 683, 1413
Beauveria bassiana, 683
botanical insecticides, 683
heat treatment, 626
methyl bromide alternative, 626
mineral oil, 683
movement, 1413
redistribution, 1413
reproductive impairment, 626
Silwet L-77, 683
stored grain, 1413
temperature gradient, 1413
Tribolium confusum,
grain, 1733
NeemAzal, 1733
Rhyzopertha dominica, 1733
Sitophilus oryzae, 1733
Trichogramma exiguum,
augmentaion biological control, 409
Rhyacionia frustrana, 409
tebufenozide, 409
trichome,
antixenosis, 1710
Lycopersicon, 1710
plant breeding, 1710
sesquiterpenoid, 1710
Trifolium spp.,
BYMV pathotypes, 1816
epidemiology, 1816
hypersusceptibility, 1816
vector, 1816
trimedlure,
attractant, 1139
ceralure B1, 1139
Ceratitis capitata, 1139
lure, 1139
Trissolcus grandis,
biological control, 35
insecticides, 35
side effect, 35
Triticum aestivum, 805, 1032
conservation tillage, 805
direct seeding, 805
Diuraphis noxia, 1032
host plant resistance, 805
Mayetiola destructor, 805
plant resistance, 1032
reproduction, 1032
survival, 1032
Tryporyza incertulas,
buprofezin, 1144
imidacloprid, 1144
JHIII, 1144
stimulation fecundity, 1144
TSWV, 1435, 1622
electrical penetration graph, 1622
Frankliniella fusca, 1435, 1622
Frankliniella occidentalis, 1622
imidacloprid, 1622
planting date, 1435
tobacco thrips, 1435
Tomato spotted wilt virus, 1435
tunneling behavior,
aggregation, 502
Coptotermes formosanus, 502
feeding behavior, 502
feeding stimulant, 502
turfgrass, 689, 891
ants, 891
Geoica, 891
IPM, 689
Lasius neoniger, 891
mole crickets, 689
pesticide compatibility, 689
root aphids, 891
two-dimensional foraging arena,
Coptotermes formosanus, 471
eastern subterranean termite, 471
Formosan subterranean termite, 471
Reticulitermes flavipes, 471
twospotted spider mite,
irrigation, 154
soil moisture, 154
strawberries, 154
temperature, 154
Typhlodromus pyri,
Amblyseius fallacis, 862
ground cover, 862
Tetranychus urticae, 862
weather, 862

U

ultralow oxygen,
aphid, 1899
lettuce, 1899
postharvest, 1899
quarantine treatment, 1899
upper hive entrance,
Aethina tumida, 1791
honey bee, 1791
pest management, 1791
Uraba lugens pheromone,
damage, 1187
eucalyptus, 1187
invasive species, 1187
UV-absorbing,
behavior, 1221
films, 1221
Trialeurodes vaporariorum, 1221

V

Va gene,
Bemisia tabaci, 557
Cucumis melo, 557
host plant resistance, 557
population dynamics, 557
Vaccinium,
azadirachtin, 1236
pyrethrum, 1236
Rhagoletis mendax, 1236
spinosad, 1236
vacuum,
controlled atmospheres, 1070
dried beans, 1070
methyl bromide alternative, 1070
pest management, 1070

variant western corn rootworm,
crop rotation, 1587
Diabrotica virgifera virgifera, 1587
root injury, 1587
Varroa destructor, 267, 645, 651, 1802
Apis mellifera, 645, 1802
CT product, 1802
drone removal, 645
drone trap, 645
effectiveness, 267
essential oils, 651
evaporation rate, 267
formic acid, 267
IPM, 645
LD_{50}, 651
repellent effect, 651
residues, 267
treatment, 1802
vector, 1664, 1816
BYMV pathotypes, 1816
epidemiology, 1816
hypersusceptibility, 1816
leafhopper, 1664
Pierce's disease, 1664
sharpshooter, 1664
Trifolium spp., 1816
Xylella fastidiosa, 1664
verification,
Bt corn, 103
economics, 103
European corn borer, 103
Ostrinia nubilalis, 103
vespids,
lures, 664
paper wasps, 664
social wasps, 664
yellowjackets, 664
vineyards,
Lobesia botrana, 135
mating disruption, 135
pheromone, 135
virus effects on survivors,
larval susceptibility, 1870
lethal time–mortality, 1870
Neodiprion abietis, 1870
nucleopolyhedrovirus, 1870
virus production,
inoculation dosage, 1876
larval stage, 1876
Neodiprion abietis, 1876
nucleopolyhedrovirus, 1876
viscosity,
boric acid, 2153
crop load, 2153
Solenopsis invicta, 2153
starvation, 2153
volatile compounds,
Adh strains, 1943
antimicrobial, 1943
Bactrocera oleae, 1943
microorganisms, 1943
VrD1,
bruchid resistance, 1369
Callosobruchus maculatus, 1369
mungbean, 1369

W

water stress,
glossy collards, 836
Plutella xylostella, 836
tomato, 836
yellow rocket, 836
weather,
Amblyseius fallacis, 862
ground cover, 862
Tetranychus urticae, 862
Typhlodromus pyri, 862
Weibull distribution,
degree-days, 2100
Lacanobia subjuncta, 2100
pest management, 2100
phenology model, 2100
western corn rootworm,
comparative toxicity, 2181
Diabrotica virgifera virgifera, 2181
insect pest management, 2181
insecticide susceptibility, 2181
western flower thrips, 1810, 2107
alternate hosts, 1810
oviposition, 2107
tobacco thrips, 1810, 2107
wheat, 389, 588, 1024, 1404, 1698, 2260
antibiosis, 2260
antixenosis, 2260
barley, 1404
categories of resistance, 588
diatomaceous earth, 1404
Diuraphis noxia, 389, 588, 1698
greenbug, 1024
host plant resistance, 389, 1698
induced resistance, 1024
insecticidal effect, 1404
near isogenic line, 1024
optimal defense theory, 1024
rice weevil, 1404
Schizaphis graminum, 2260
tolerance, 2260
wheat curl mite,
corn, 1580
dispersal, 1580
kernel red streak, 1580
whitefly infestation,
cassava genotypes, 611
resistance, 611
whitewash,
deterrent, 2079
kaolin, 2079
physical barrier, 2079
repellent, 2079
wide area control,
mark-release-recapture, 1539
melon fly, 1539
wild relatives of chickpea,
chickpea, 2246
Cicer reticulatum, 2246
Helicoverpa armigera, 2246
host plant resistance, 2246
winter wheat,
barley yellow dwarf virus, 2013
cereal aphid, 2013
Rhopalosiphum padi, 2013
yield loss, 2013
wireworms,
Agriotes obscurus, 1999
cultural control, 1999
Elateridae, 1999
lethal trap crops, 1999
wood,
Anacanthotermes ochraceus, 2137
damage assessment, 2137
resistance, 2137
wood waste,
Anoplophora glabripennis, 47
eradication, 47
landfills, 47
pathway analysis, 47

X

Xanthosoma sagittifolium,
Aphis gossypii, 996
Colocasia esculenta, 996
host resistance, 996
taro, 996
Xyleborini,
ethanol, 2049
fertilization, 2049
invasive species, 2049
Populus deltoides, 2049
Xylella fastidiosa,
leafhopper, 1664
Pierce's disease, 1664
sharpshooter, 1664
vector, 1664
xylem,
ELISA, 182
grapevine, 182
Homalodisca coagulata, 182
imidacloprid, 182

Y

yellow rocket,
glossy collards, 836
Plutella xylostella, 836
tomato, 836
water stress, 836
yellowjackets,
lures, 664
paper wasps, 664
social wasps, 664

vespids, 664
yield,
barley, 1969
harvest index, 1969
sink-limitation, 1969
subarctic, 1969
yield loss,
barley yellow dwarf virus, 2013
cereal aphid, 2013
Rhopalosiphum padi, 2013
winter wheat, 2013

Z
(Z)-7-tetradecenal,
monitoring, 1499
Prays oleae, 1499
Zea mays, 982, 1349
indirect selection, 982
Ostrinia nubilalis, 982
phase transition, 982
phenolic compounds, 1349
pith, 1349
resistance, 1349
Sesamia nonagrioides, 982, 1349
Zingiber purpureum,
4-(3′;4′-dimethoxyphenyl) buta-1;3-diene, 1163
Callosobruchus maculatus, 1163
formulations, 1163
ovicidal activity, 1163
Zonosemata electa,
damage, 350
peppers, 350
population, 350